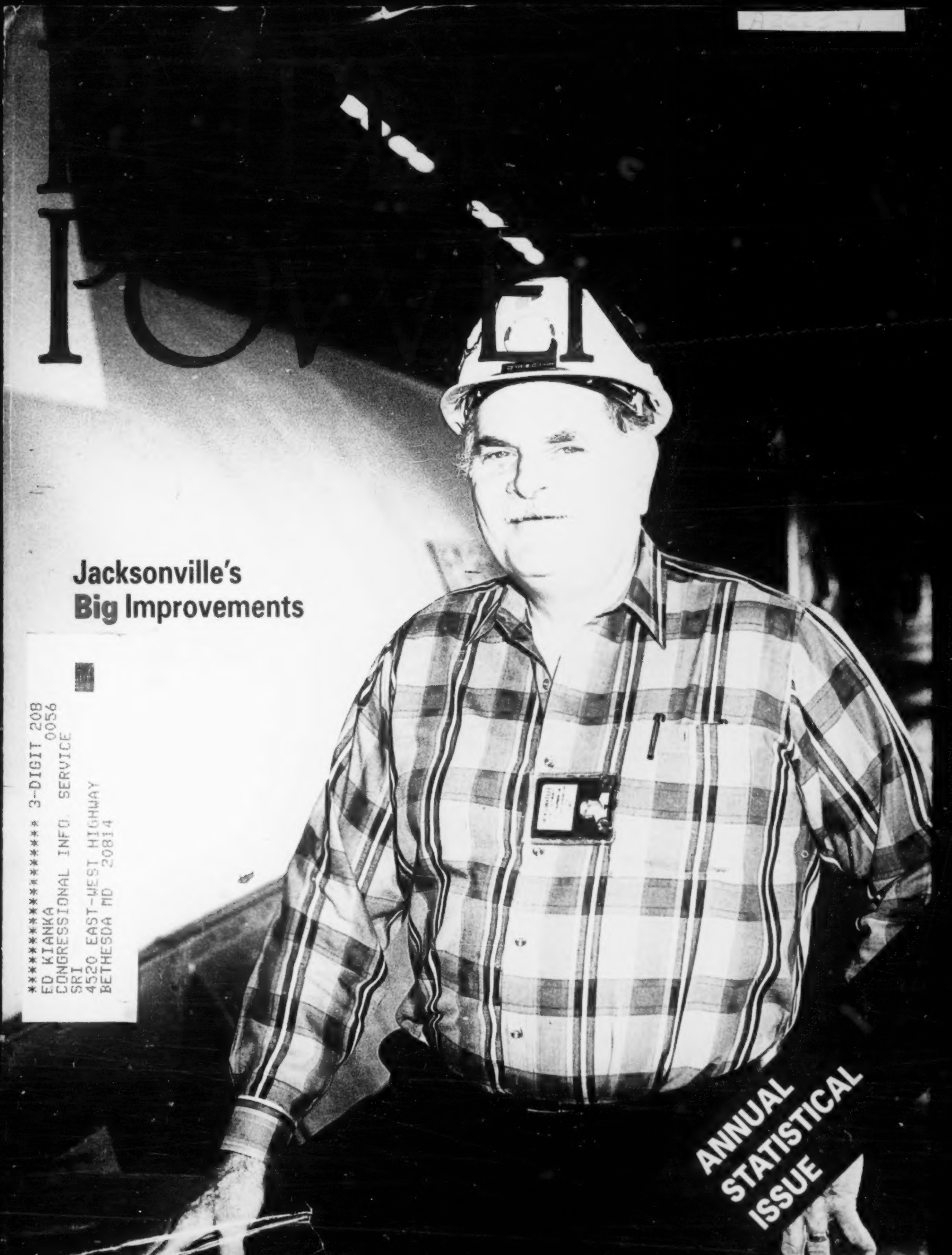
POWER



Jacksonville's **Big** Improvements

************************ 3-DIGIT 208
ED KIANKA 0056
CONGRESSIONAL INFO. SERVICE
SRI
4520 EAST-WEST HIGHWAY
BETHESDA MD 20814

ANNUAL STATISTICAL ISSUE

American Public Power Association
2301 M St. N.W. Washington, D.C. 20037-1484
202/467-2900

OFFICERS 1991-92
ROBERT E. NELSON, *president*
TIMOTHY C. MORAWSKI, *immediate past president*
ROBERT E. ROUNDTREE, *president-elect*
ROYCE LYLES, *vice president*
C. M. PERKINS, *treasurer*
LARRY HOBART, *executive director*

DIRECTORS
D. CARL ANDERSON, *chairman*, North York Hydroelectric Commission, Ontario, Canada
WILLIAM BATCHELOR*, *city manager*, Rocky Mount, N.C.
JAMES A. BAUER*, *general manager*, Piedmont Municipal Power Agency, Greer, S.C.
RONALD W. BOLES, *vice chairman*, Electric Utility Board, Huntsville, Ala.
ROBERT CLAUSSEN, *general manager*, Alabama Municipal Electric Authority, Montgomery, Ala.
VERA B. CLAUSSEN*, *commissioner*, Public Utility District No. 2 of Grant County, Ephrata, Wash.
ELDON COTTON*, *assistant general manager of power*, Los Angeles, Calif., Department of Water and Power
OTHA COX, *member*, Utility Board, Key West, Fla.
E. LEON DAGGETT, *director of public utilities*, Hamilton!, Ohio
DALE DEN HERDER, *mayor*, Sioux Center, Iowa
TERRY DRAKE, *general manager*, Kansas City, Kan., Board of Public Utilities
RICHARD M. FLYNN, *chairman*, New York Power Authority, New York, N.Y.
ERNEST GEDDES, *general manager*, Turlock, Calif., Irrigation District
TOM HELLER*, *general manager*, Moorhead, Minn., Public Service Department
EDWIN C. HOSKINS, *general manager*, Knoxville, Tenn., Utilities Board
JERRY JORDAN[1], *executive director*, California Municipal Utilities Association, Sacramento, Calif.
ROY E. KASER, *manager*, Crawfordsville, Ind., Electric Light and Power
ROBERT C. KAYTON, *director*, Loup River Public Power District, Columbus, Neb.
CURTIS J. LANCIANI, *general manager*, Littleton, Mass., Electric Light and Water Departments
ROYCE LYLES*, *managing director*, Jacksonville, Fla., Electric Authority
STEVE MEISBURG[2], *city commissioner*, Tallahassee, Fla.
THAINE J. MICHIE, *general manager*, Platte River Power Authority, Fort Collins, Colo.
TIMOTHY C. MORAWSKI*, *general manager*, Holland, Mich., Board of Public Works
WILLIAM C. MOSS, *executive director*, Tennessee Municipal Electric Power Association, Brentwood, Tenn.
ROBERT E. NELSON*, *executive director*, Denton, Texas, Municipal Utilities
FRANK L. OLSON, *general manager*, Crisp County Power Commission, Cordele, Ga.
DON A. OUCHLEY, *director of utilities*, Lafayette, La., Utilities System
C. M. PERKINS*, *general manager*, Salt River Project, Phoenix, Ariz.
ROBERT ROUNDTREE*, *general manager*, City Utilities, Springfield, Mo.
RONALD L. SAVILLE, *general manager*, Tillamook, Ore., People's Utility District
RAYMOND F. SMITH, *director of utilities*, Wallingford, Conn.
WILLIAM D. TOWERS, *general manager and chief executive officer*, Brownsville, Texas, Public Utilities Board
STEVE WACKER, *general manager*, Nebraska Municipal Power Pool, Lincoln, Neb.
GARY ZIMMERMAN, *general manager*, Michigan Public Power Agency, Kentwood, Mich.

*Member, Executive Committee
[1] chair, APPA Advisory Committee
[2] chair, APPA Policy Boards Advisory Council

Is Your Mailing Label Correct?

If the name, title, or address on your mailing label is not correct, please note the corrections below and clip and send this form and the mailing label from this issue to **Circulation, American Public Power Association, 2301 M St. N.W., Washington, D.C. 20037-1484**. Changes may be telephoned in by calling 202/467-2982.

Name______________________________

Title______________________________

Organization______________________________

Address______________________________

City______________________________

State______________________ Zip______________

PUBLIC POWER

Editorial and advertising offices:
2301 M St. N.W.,
Washington, D.C. 20037-1484

PUBLIC POWER (ISSN 0033-3654), issued bimonthly, is published by the American Public Power Association, 2301 M St. N.W., Washington, D.C. 20037-1484, a national service organization providing legislative and regulatory monitoring, technical and statistical research, and educational and informational services for the nation's local publicly owned electric utilities. Opinions expressed in single articles are not necessarily policies of the association. For permission to reprint articles, write or call the publisher.

Editor and Publisher
Jeanne Wickline LaBella 202/467-2948

Managing Editor
Mary Kate Wallace 202/467-2925

Editorial Assistant
Stacey Hobart 202/467-2946

Consulting Designer
Herman Maldonado, HDM Designs

Contributing Editors
Kennedy P. Maize, *Senior Associate Editor*
Jeannine Anderson, *Associate Editor*
Jacquie Cochran, *Innovations Editor*

Advertising Representatives:
Nancy Petersen
Terry Perrine
Mitchell Petersen, Inc.
1707 Osage St., Suite 400
Alexandria, Va. 22302
703/998-4000

Members of the American Public Power Association receive *Public Power* magazine as part of their annual dues payments. Additionally, a complimentary subscription goes to each chief executive officer and chief policymaking official of every nonmember public power system and rural electric cooperative in the United States. The subscription rate for others is $50 a year. Single copies cost $10 each and the January-February annual directory issue costs $90 ($50 for APPA members).
Second class postage paid at Washington, D.C., and additional mailing offices. Postmaster: send address changes to *Public Power*, c/o Circulation, American Public Power Association, 2301 M St., N.W., Washington, D.C. 20037-1484.

PUBLIC POWER

January-February 1992, Volume 50, Number 1

p.38

FEATURES

5 **Public Power 1992 Directory**
Turn the page for the table of contents for this year's directory.

14 **Jacksonville's Big Improvements**
How a Florida utility went from worst to best in 10 years.

24 **Public Power Costs Less**
Local publicly owned not for profit electric systems continue to provide the least expensive electricity.

26 **Selected Financial and Operating Ratios**
Twenty indicators provide a basis for comparison for public power systems.

34 **Texas Pragmatist**
Public fears do not always warrant massive expenditures.

38 **Management Salaries**
The mean salary for general managers of public power systems was $50,283 in 1991.

42 **U.S. Public Power Systems**
Our map shows where public power systems are located.

46 **Public Power Week Creates Powerful Community Relations**
Hundreds of utilities celebrated Public Power Week in 1991.

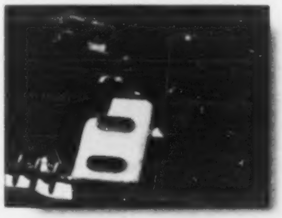
p.46

Cover Story

Cover: "If you can't measure it, you can't manage it." Hubert Chapman, superintendent of power generation for Jacksonville Electric Authority, didn't coin the phrase, but he sure subscribes to it. See page 14.
Cover photo by Steve Heape

DEPARTMENTS

8 Something To Think About
10 Chronicle
50 Innovations
170 Almanac
176 Omega



p.50

PUBLIC POWER 1992 Directory

About This Issue ... 6
U.S. Electric Generating Capacity ... 52
Twenty Largest Public Power Systems ... 53
Utility Rate Comparison, By State ... 54
U.S. Electric Utility Statistics ... 56
Number of State and Local Publicly Owned Electric Utilities ... 57

Public Power Systems, By State Or Territory

Alabama ... 58
Alaska ... 59
American Samoa ... 60
Arizona ... 60
Arkansas ... 62
California ... 63
Colorado ... 65
Connecticut ... 66
Delaware ... 66
Florida ... 67
Georgia ... 68
Guam ... 70
Idaho ... 70
Illinois ... 70
Indiana ... 72
Iowa ... 76
Kansas ... 81
Kentucky ... 86
Louisiana ... 87
Maine ... 88
Maryland ... 88
Massachusetts ... 88
Michigan ... 90
Minnesota ... 92
Mississippi ... 98
Missouri ... 99
Montana ... 102
Nebraska ... 102
Nevada ... 108
New Hampshire ... 108
New Jersey ... 108
New Mexico ... 108
New York ... 109
North Carolina ... 112
North Dakota ... 114
Ohio ... 115
Oklahoma ... 118
Oregon ... 120
Pennsylvania ... 121
Puerto Rico ... 122
Rhode Island ... 122
South Carolina ... 122
South Dakota ... 124
Tennessee ... 125
Texas ... 127
Utah ... 130
Vermont ... 132
Virgin Islands ... 133
Virginia ... 133
Washington ... 133
West Virginia ... 135
Wisconsin ... 135
Wyoming ... 139

Joint Action Agencies ... 140
Federal Power Agencies ... 144
Regional Public Power Associations ... 144
State Public Power Associations ... 145
APPA-Member Electric Cooperatives ... 147
Other APPA Members ... 147
Municipally Owned Cable Television Systems ... 148
APPA Corporate Associate Members ... 152
APPA Individual Associate Members ... 153
Public Power Magazine Index ... 160
APPA Staff ... 175

About This Issue

Public Power's January-February issue used to be a magazine with a directory tucked inside it. In recent years, it has evolved into an authoritative source of statistics on the public power segment of the electric utility industry. It presents a quantitative snapshot of public power, with reports on the number of utilities, kilowatt-hour sales, revenues and numbers of customers. Since 1989, we have relied on data submitted by utilities to the U.S. Energy Information Adminsitration on Form EIA 861. The EIA reports enable us to report comparable data for all utilities. We have worked closely with EIA staff over the past few years to obtain this information.

In the age of cogenerators, small power producers and independent power projects, the definition of an electric utility becomes fuzzy. An electric utility is defined as an organization engaged in the generation, transmission or distribution of electricity. In many cases, determining whether or not an organization is a utility is fairly straightforward; in others it is not. We grapple with this definition and decide each year whether or not to include certain marginal organizations. To strengthen our definition this time around, we opted for consensus: if EIA calls it a utility, and the utility files a Form 861, we will recognize it as a utility. Hence, several organizations that were not listed in these pages in previous years, are listed here now. For example, the Massachusetts Water Resources Authority and the city of Gouverneur, N.Y., each generate and sell electric power. Each of these organizations is a government entity and each reports its electricity sales to the federal government on the EIA 861. Therefore, we have included both of them in our listing of state and local publicly owned electric systems.

Our listing this year also reflects other changes: Through EIA, we learned of the existence of 16 municipal electric systems in Alaska that have not been listed in these pages previously. We have dropped from our listing a half dozen irrigation districts in Arizona that operate as self-generators—producing electricity to power their own irrigation projects. For the first time, our listing of state and local publicly owned electric utilities, the main body of our directory, which we call "the guts," includes those joint action agencies that sell power to their members. We are continuing to provide more details on joint action agencies in a separate section that begins on page 140. We have dropped from our listing several university utility operations because they function as self-generators.

The Show-Me State—Missouri—surprises us every few years with a municipal electric population that exceeds our count. This year's directory for the first time lists the cities of Ava (1,434 customers) and Willow Springs (1,164 customers). We're now aware of 91 municipal electric systems in that state. Are there more?

In the birth and death column, we have added a new system in Oklahoma—Byng, created in 1990—and we have dropped the city of Mahaska, Kan., which sold out to a private power company in 1990.

I am indebted to a solid group of colleagues who worked hard to bring this directory issue to life, especially Diane Moody, Susan Lynch, Mary Kate Wallace and Stacey Hobart. Diane worked with EIA staff to obtain 861 data, crunched numbers, checked numbers, analyzed numbers and turned them over to the magazine staff for publication. She is the author of the articles reporting on the salary survey, ratio indicators and electric utility rates. Susan meticulously maintains information published in our state-by-state and membership listings on a database, prepares the information for publication and delivers it to the magazine staff on diskette. Mary Kate honchoed the job through the lengthy and painstaking production process. Stacey made dozens of phone calls to fill information gaps and updated the municipal cable systems listing that begins on page 148. I am also indebted to Mary Rufe, APPA's librarian, who prepared the annual index to *Public Power* magazine, which begins on page 160. All of these people have worked together to produce an annual statistical issue that is a comprehensive and reliable source of information for *Public Power* readers.

Happy New Year,

Jeanne LaBella

Jeanne LaBella
Editor & Publisher, *Public Power*

PUBLIC POWER COSTS LESS

by Diane Moody

Residential customers of publicly owned electric power systems enjoyed average rates that were 21 percent below the rates paid by customers of investor owned utilities during 1989. Public power customers paid an average of 6.27 cents per kilowatt-hour for residential electric service, compared to 7.97 cents per kilowatt-hour paid by residential customers of privately-owned utilities.

Across the country, publicly owned electric utilities continue to lead the way in providing residential, commercial and industrial customers with low-cost energy for homes, businesses, large industry and the public.

The 1989 data presented here for rates (average revenue per kilowatt-hour) and average annual consumption per customer for residential, commercial and industrial customers of public power systems are based on information reported to the Department of Energy by 1,984 publicly owned electric utilities, which comprise virtually all of the public power sector. The 1989 expense data for public power systems cover 385 of the largest public power distribution systems. These utilities accounted for approximately 78 percent of all public power sales to ultimate customers. The data reported for privately owned utilities cover 182 major electric utilities, representing 99 percent of electricity sales to ultimate customers in the private sector for 1989.

Public power customers paid an average of 6.27 cents per kilowatt-hour for residential electric service, compared to 7.97 cents per kilowatt-hour paid by residential customers of privately-owned utilities.

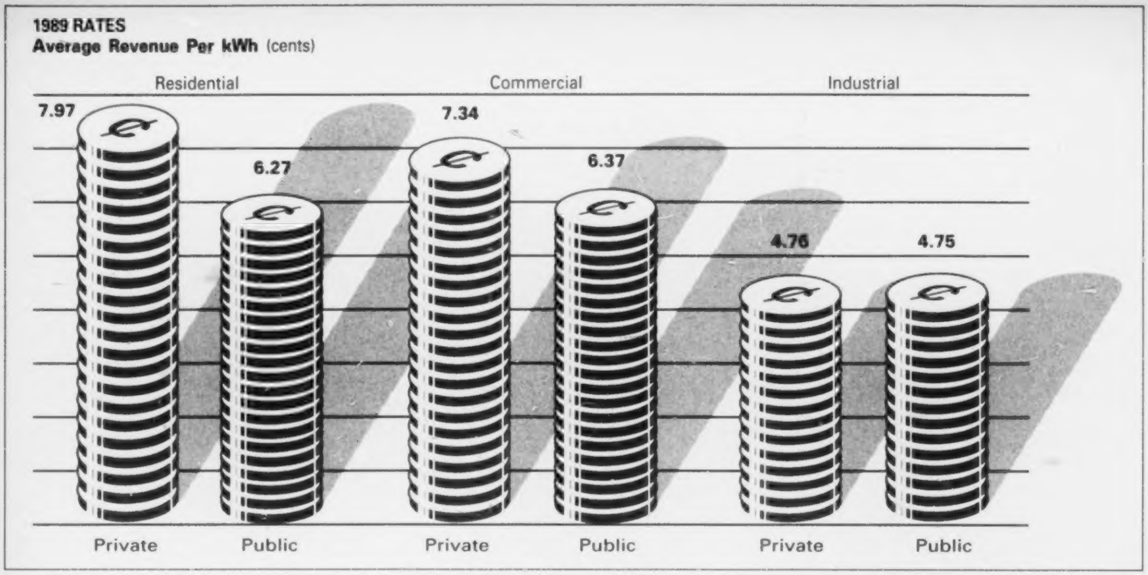
In 1989, residential customers of public power systems paid an average of 1.7 cents, or 21 percent, less for each kWh of electricity used than did residential customers of privately owned electric utilities. This represents little change from 1988, when residential customers of public power systems paid 1.65 cents, or 21 percent less, for electricity than their private sector counterparts.

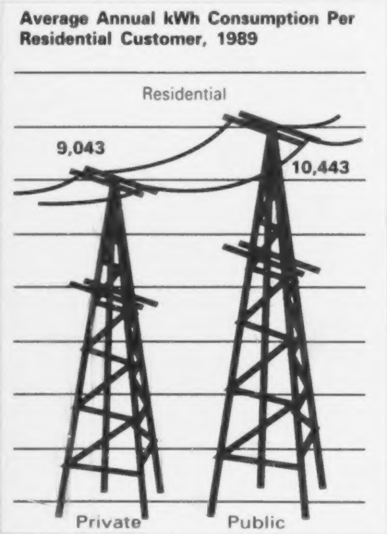
Public power residential customers paid an average of 6.27 cents per kilowatt-hour in 1989, compared to 7.97 cents per kilowatt-hour for residential customers of private sector utilities. The average public power residential customer consumed 10,443 kWh of electricity in 1989, 15 percent more than the typical private sector residential customer, who consumed 9,043 kWh of electric power during the year.

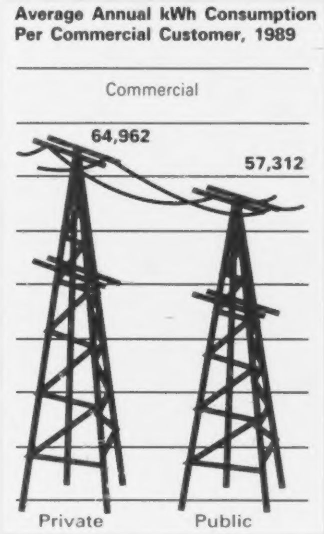
Average residential rates rose slightly for customers of both publicly and privately owned utilities from 1988 to 1989. Public power residential rates rose from 6.14 cents per kWh in 1988 to 6.27 cents per kWh the following year. For residential customers of private power systems, residential rates rose from 7.79 cents per kWh to 7.97 cents per kWh over the same time period.

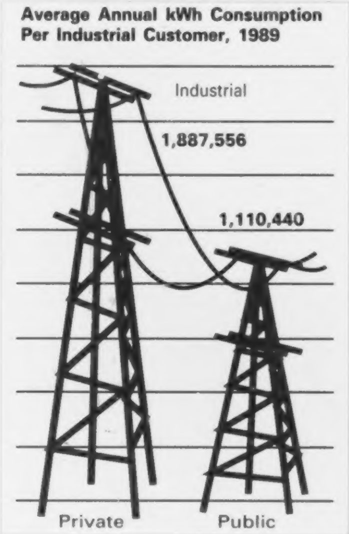
Commercial customers of public power systems paid 13 percent less for electricity than private power customers in 1989. Public power commercial customers paid 6.37 cents per kWh, compared to 7.34 cents per kWh paid by commercial customers of privately owned electric utilities. Annual consumption for the commercial class averaged 57,312 kWh for public power customers and 64,962 kWh for private power customers.

Industrial customers of publicly owned and privately owned utilities paid, on average, similar rates in 1989.









Public power industrial customers paid an average of 4.75 cents per kWh and consumed 1,110,440 kWh per customer, while private power industrial customers paid an average of 4.76 cents per kWh and consumed 1,887,556 kWh per customer.

Managerial Costs Lower

Managerial costs faced by public power systems remain below comparable costs of private power companies, indicating greater efficiency of management among public power systems. Administrative and general expenses of public systems were 18 percent below those of private systems. These expenses for public power systems averaged $98 per customer, compared to $120 per customer for private power systems.

Customer accounts expenses averaged $31 per customer for publicly owned electric utilities compared to $36 per customer for private utility companies. Average customer accounts expenses for public systems are 14 percent below those of private systems.

The statistical information presented here reconfirms the experience of the 16 million customers who have made the public power choice: public power costs less.

Statistics presented here for publicly owned utilities are based on data reported to DOE on forms EIA-861 and EIA-412 for 1989. In addition, calendar year expense data for public power systems were collected on an APPA survey for those public power systems that report to DOE using a fiscal year. All data presented for privately owned electric utilities are based on information reported by the utilities on form EIA-861 and on the FERC Form 1 for 1989, and published in the annual DOE report, *Financial Statistics of Selected Electric Utilities, 1989.* PP

Diane Moody is an economist at the American Public Power Association.

SELECTED FINANCIAL AND OPERATING RATIOS

of Public Power Systems

by Diane Moody

In 1991, the American Public Power Association published its third report on financial and operating ratios. Based on 1989 data for the largest public power distribution systems, the report examined 21 categories of ratio indicators that can be used by public power systems to assess their performance relative to other utilities of comparable size or in the same geographic region. The 386 utilities summarized in the report are those that are required to file financial statements with the Energy Information Administration.

Ratios were calculated from this financial and operating data and from data reported by utilities on an APPA survey. Complete definitions and mean, median and quartile values by customer size class, generation class and region are available in the complete report, *Selected Financial and Operating Ratios of Public Power Systems, 1989.*

Revenue per Kilowatt-Hour is the ratio of total electric operating revenues from sales to ultimate customers to total kilowatt-hour sales. The ratio is calculated for all retail customer classes and separately for residential, commercial and industrial customers.

Revenue per Customer is the ratio of total electric operating revenues from sales to ultimate customers to the average number of customers. Individual ratios also were calculated for residential, commercial and industrial rate classes.

The report examined 21 categories of ratio indicators that can be used by public power systems to assess their performance relative to other utilities of comparable size or in the same geographic region.

Financial Ratios

Debt to Total Assets is the ratio of long-term debt, plus current and accrued liabilities, to total assets and other debits. This ratio measures a utility's ability to meet its current and long-term liabilities based on the availability of assets.

The major components of long-term debt are bonds and advances from the municipality. Current and accrued liabilities include warrants, notes and accounts payable, customer deposits and other miscellaneous liabilities. Total assets and other debits include utility plant, investments, debits, and current and accrued assets such as cash, working funds, and notes and accounts receivable.

Operating Ratio is the ratio of total electric operation and maintenance expenses to total electric operating revenues. This ratio measures the proportion of revenues received from electricity sales, rate adjustments and other electric activities required to cover the operation and maintenance costs associated with producing and selling electricity. Operation and maintenance expenses include the costs of power production, purchased power, transmission, distribution, customer accounts, sales, and administrative and general expenses.

Current Ratio is the ratio of total current and accrued assets to total current and accrued liabilities. This is a

REVENUE MEASURES, BY CUSTOMER SIZE CLASS, 1989

		Customer Size Class (Thousands of Customers)					
	ALL CLASSES	**2-5**	**5-10**	**10-20**	**20-50**	**50-100**	**100 OR MORE**
REVENUE PER KWH (DOLLARS)							
ALL RETAIL CLASSES	0.057 (386)	0.054 (26)	0.056 (124)	0.058 (118)	0.061 (78)	0.064 (22)	0.057 (18)
RESIDENTIAL	0.059 (386)	0.057 (26)	0.058 (124)	0.060 (118)	0.064 (78)	0.067 (22)	0.062 (18)
COMMERCIAL	0.064 (385)	0.064 (26)	0.063 (124)	0.064 (118)	0.065 (77)	0.071 (22)	0.062 (18)
INDUSTRIAL	0.052 (346)	0.051 (26)	0.051 (112)	0.052 (103)	0.054 (67)	0.051 (20)	0.049 (18)
REVENUE PER CUSTOMER (DOLLARS)							
ALL RETAIL CLASSES	1,431 (386)	2,050 (26)	1,521 (124)	1,305 (118)	1,390 (78)	1,362 (22)	1,479 (18)
RESIDENTIAL	649 (386)	639 (26)	635 (124)	620 (118)	690 (78)	553 (22)	741 (18)
COMMERCIAL	2,464 (384)	1,603 (26)	2,126 (123)	2,637 (118)	3,192 (77)	3,725 (22)	3,133 (18)
INDUSTRIAL	94,692 (346)	117,706 (26)	77,132 (112)	84,000 (103)	97,500 (67)	240,753 (20)	148,891 (18)

REVENUE MEASURES, BY REGION, 1989

	NORTHEAST	**SOUTHEAST**	**NORTH CENTRAL/ PLAINS**	**SOUTHWEST/ WEST**
REVENUE PER KWH (DOLLARS)				
ALL RETAIL CLASSES	0.081 (30)	0.058 (151)	0.053 (88)	0.057 (117)
RESIDENTIAL	0.085 (30)	0.058 (151)	0.058 (88)	0.059 (117)
COMMERCIAL	0.093 (29)	0.065 (151)	0.059 (88)	0.058 (117)
INDUSTRIAL	0.081 (26)	0.054 (136)	0.044 (84)	0.042 (100)
REVENUE PER CUSTOMER (DOLLARS)				
ALL RETAIL CLASSES	1,632 (30)	1,626 (151)	1,291 (88)	1,245 (117)
RESIDENTIAL	646 (30)	780 (151)	475 (88)	577 (117)
COMMERCIAL	3,754 (29)	1,813 (150)	2,254 (88)	3,051 (117)
INDUSTRIAL	117,507 (26)	75,275 (136)	99,224 (84)	148,891 (100)

Numbers shown are median values. The number of responses for each category is shown in parentheses.

FINANCIAL RATIOS, BY CUSTOMER SIZE CLASS, 1989

		Customer Size Class (Thousands of Customers)					
	ALL CLASSES	**2-5**	**5-10**	**10-20**	**20-50**	**50-100**	**100 OR MORE**
DEBT TO TOTAL ASSETS	0.287 (383)	0.295 (26)	0.231 (121)	0.298 (118)	0.308 (78)	0.415 (22)	0.573 (18)
OPERATING RATIO	0.862 (386)	0.917 (26)	0.879 (124)	0.859 (118)	0.822 (78)	0.792 (22)	0.733 (18)
CURRENT RATIO	2.14 (383)	1.98 (26)	2.17 (121)	2.27 (118)	2.18 (78)	2.07 (22)	1.53 (18)
TIMES INTEREST EARNED	2.90 (277)	5.24 (19)	3.17 (70)	3.59 (87)	3.43 (62)	1.65 (21)	1.35 (18)
NET INCOME PER REVENUE DOLLAR	0.043 (385)	0.024 (26)	0.036 (124)	0.044 (118)	0.060 (77)	0.045 (22)	0.023 (18)
UNCOLLECTIBLE ACCOUNTS PER REVENUE DOLLAR	0.0024 (199)	0.0019 (7)	0.0024 (53)	0.0019 (58)	0.0025 (50)	0.0035 (17)	0.0039 (14)

FINANCIAL RATIOS, BY REGION, 1989

	NORTHEAST	**SOUTHEAST**	**NORTH CENTRAL/ PLAINS**	**SOUTHWEST/ WEST**
DEBT TO TOTAL ASSETS	0.252 (29)	0.240 (150)	0.264 (88)	0.374 (116)
OPERATING RATIO	0.880 (30)	0.918 (151)	0.854 (88)	0.771 (117)
CURRENT RATIO	2.66 (29)	1.73 (150)	2.80 (88)	2.31 (116)
TIMES INTEREST EARNED	4.01 (27)	3.98 (95)	2.44 (62)	2.11 (93)
NET INCOME PER REVENUE DOLLAR	0.048 (30)	0.031 (150)	0.049 (88)	0.065 (117)
UNCOLLECTIBLE ACCOUNTS PER REVENUE DOLLAR	0.0017 (13)	0.0027 (64)	0.0012 (47)	0.0035 (75)

Numbers shown are median values. The number of responses for each category is shown in parentheses.

measure of the utility's short-term liquidity, that is, the ability to pay its bills. The current ratio takes a snapshot of the utility's liquidity at a point in time and thus may vary considerably at other times of the year.

Times Interest Earned is the ratio of net income plus interest paid on long-term debt, to interest on long-term debt. It measures the ability of a utility to cover interest charges and is indicative of the safety margin to lenders. This ratio may be influenced by a utility's financial policies.

Net Income per Revenue Dollar is the ratio of net income to total electric operating revenues. It measures the amount of income remaining, after accounting for operation and maintenance expenses, depreciation, taxes and tax equivalents, and contributions and services, for every dollar received from sales of electricity.

Uncollectible Accounts per Revenue Dollar is the ratio of total uncollectible accounts to total electric utility operating revenues. This ratio measures the proportion of each revenue dollar that will not be collected by the utility. It will be influenced by the financial and customer service policies of the utility.

Operating Ratios

Retail MWh Sales per Non-Power-Generation Employee is the ratio of total megawatt-hour sales to ultimate customers to the total number of full-time, part-time and contract employees not involved in power generation. The ratio measures the average output in the form of retail megawatt-hour sales produced by each nongeneration employee.

Retail Customers per Non-Power-Generation Employee is the ratio of the average number of retail customers to the total number of full-time, part-time and contract employees not involved in the generation of power. This ratio measures the average number of customers served by each nongeneration employee.

Total Operation and Maintenance Expense per kWh Sold is the ratio of total electric utility operation and maintenance expenses, including the cost of generated and purchased power, to total kilowatt-hour sales to ultimate and resale customers. This ratio measures average total operation and maintenance expenses associated with each kilowatt-hour of electricity sold, either for resale or to ultimate customers.

Included in operation and maintenance costs are the expenses associated with power supply (generation and purchased power), transmission, distribution, customer accounts, sales, and administrative and general functions of the electric utility.

Revenue per kilowatt-hour for all retail customers — was 5.7 cents in 1989.

Total Operation and Maintenance Expense (Excluding Power Supply Expense) per Retail Customer is the ratio of total electric utility operation and maintenance expenses, excluding all costs of power supply, to the total number of ultimate customers. This measures the average costs associated with the sale of electricity to each retail customer. Operation and maintenance expenses include the costs of transmission, distribution, customer accounts, sales and administrative and general expenses. The costs of power supply (generation and purchased power) are excluded from the ratio.

Total Power Supply Expense per Kilowatt-hour Sold is the ratio of the total costs of power supply to total sales to both ultimate and resale customers. This ratio measures all power supply costs, including generation and purchased power, associated with the sale of each kilowatt-hour of electricity. The ratio includes operation and maintenance costs arising from all generation types, including steam, nuclear, hydraulic and other types of generation. Operation and maintenance expenses include the costs of fuel, labor, supervision, engineering, materials and supplies, and also include the costs of purchased power.

Purchased Power Cost per Kilowatt-Hour is the ratio of the cost of purchased power to the amount of kilowatt-hours purchased. This ratio measures the purchased power component of power supply costs. Purchased power includes purchases from investor-owned utilities, municipalities, cooperatives or other public authorities for subsequent distribution and sale to ultimate customers.

Production Expense per Net Kilowatt-Hour is the ratio of total production expenses to net generation. This ratio measures the power production component of power supply costs. The ratio includes operation and maintenance costs and net generation for large steam-electric generating plants. Joint action agencies and power wholesalers are included for this ratio. The 138 plants used here cover 91 separate utilities, as several utilities reported more than one plant.

Retail Customers per Meter Reader is the ratio of retail customers to the number of meter readers employed by the utility. This measures the average number of retail customers served by each meter reader.

The number of meter readers includes the total number of full-time meter readers plus half of all part-time meter readers. Population density, frequency of meter readings, and the technology or methods used to read meters will influence the ratio.

Distribution Operation and Maintenance Expenses per Retail Customer is the ratio of total distribution operation and maintenance expenses to the total number of retail customers. This ratio measures the average distribution expense associated with delivering power to each retail customer.

Distribution costs include expenses associated with labor, supervision, engineering, materials and supplies

OPERATING RATIOS, BY CUSTOMER SIZE CLASS, 1989

		Customer Size Class (Thousands of Customers)					
	ALL CLASSES	**2-5**	**5-10**	**10-20**	**20-50**	**50-100**	**100 OR MORE**
RETAIL MWH SALES PER NON-POWER-GEN. EMP.	6,909 (228)	10,445 (10)	7,508 (61)	6,623 (64)	6,415 (58)	5,400 (18)	5,376 (17)
RETAIL CUSTOMERS PER NON-POWER-GEN. EMP.	289 (227)	276 (10)	294 (61)	282 (63)	302 (58)	251 (18)	220 (17)
TOTAL O&M EXPENSE PER KWH SOLD	0.051 (385)	0.050 (26)	0.050 (124)	0.052 (118)	0.051 (77)	0.048 (22)	0.037 (18)
TOTAL O&M EXPENSE (EXCLUDING POWER SUPPLY) PER RETAIL CUSTOMER	171 (378)	173 (26)	168 (121)	159 (116)	159 (75)	223 (22)	201 (18)
TOTAL POWER SUPPLY EXPENSE PER KWH SOLD	0.044 (385)	0.045 (26)	0.044 (124)	0.044 (118)	0.044 (77)	0.036 (22)	0.027 (18)
PURCHASED POWER COST PER KWH	0.038 (336)	0.042 (22)	0.040 (101)	0.038 (104)	0.040 (71)	0.030 (21)	0.033 (17)
PRODUCTION EXPENSE PER NET KWH	0.0301(138)	*	*	*	*	*	*
RETAIL CUSTOMERS PER METER READER	4,134 (219)	4,444 (9)	3,191 (58)	3,929 (62)	4,146 (57)	5,207 (16)	6,522 (17)
DISTRIBUTION O&M EXP. PER RETAIL CUSTOMER	67 (309)	69 (22)	71 (89)	67 (94)	63 (65)	65 (21)	75 (18)
DISTRIBUTION O&M EXPENSES PER CIRCUIT MILE	3,173 (189)	2,089 (10)	3,184 (46)	2,608 (54)	2,857 (47)	4,003 (15)	3,651 (17)
CUSTOMER ACCOUNTING SERVICE & SALES EXPENSE PER RETAIL CUSTOMER	29 (309)	26 (22)	27 (89)	28 (94)	32 (65)	32 (21)	42 (18)
ADMINISTRATIVE AND GENERAL EXPENSE PER RETAIL CUSTOMER	65 (309)	60 (22)	61 (89)	63 (94)	65 (65)	88 (21)	94 (18)
LABOR EXPENSE PER WORKER-HOUR	14.63 (206)	14.32 (9)	13.67 (55)	14.66 (60)	14.15 (53)	16.93 (15)	15.92 (14)
OSHA INCIDENCE RATE (PER 100 EMPLOYEES)	5.10 (205)	13.12 (8)	3.79 (54)	5.87 (59)	5.76 (52)	5.00 (17)	3.92 (15)

* Median values by customer size class are not calculated for Production Expense Per Net kWh because this ratio includes observations from public power systems that are primarily wholesalers.
Numbers shown are median values. The number of responses for each category is shown in parentheses.

used in the operation and maintenance of the distribution system. The ratio will be influenced by population density and the mix of customer classes served by the utility.

Distribution Operation and Maintenance Expenses per Circuit Mile is the ratio of total distribution operation and maintenance expenses to the total number of circuit miles of distribution line. This measures the total distribution costs associated with each circuit mile of distribution line used to deliver power to customers.

Customer Accounting, Customer Service and Sales Expenses per Retail Customer is the ratio of total customer accounting, services, and sales expenses to the total number of retail customers. This ratio measures the average expenses incurred by the utility in handling each customer's account.

Administrative and General Expenses per Retail Customer is the ratio of total electric utility administrative and general expenses to the total number of retail customers. This ratio measures the average administrative and general expenses incurred by the utility on behalf of each retail customer.

Administrative and general expenses are those electric operation and maintenance expenses not allocable to the costs of power production, transmission, distribution, or customer accounting, service and sales. Items that may be included are compensation of officers and executives, office supplies, professional fees, property insurance and claims, pensions and benefits, and other expenses not provided for elsewhere.

Labor Expense per Worker-hour is the ratio of total annual earnings of full-time, part-time and contract labor employees to the total number of hours worked during the year by these employees. This ratio measures the actual cost to the utility of labor. Total annual earnings include all payroll compensation including straight-time pay, overtime pay, and payment for time not worked such as sick pay, vacation pay, holiday pay, or other payments.

OPERATING RATIOS, BY REGION, 1989

	NORTHEAST	SOUTHEAST	NORTH CENTRAL/ PLAINS	SOUTHWEST/ WEST
RETAIL MWH SALES PER NON-POWER-GEN. EMP.	6,328 (17)	7,735(76)	6,450 (51)	6,496 (84)
RETAIL CUSTOMERS PER NON-POWER-GEN. EMP.	268 (16)	275 (76)	295 (51)	297 (84)
TOTAL O&M EXPENSE PER KWH SOLD	0.069 (30)	0.053 (151)	0.045 (87)	0.041 (117)
TOTAL O&M EXPENSE (EXCL. POWER SUPPLY) PER RETAIL CUSTOMER	230 (30)	151 (148)	169 (84)	192 (116)
TOTAL POWER SUPPLY EXPENSE PER KWH SOLD	0.056 (30)	0.048 (151)	0.037 (87)	0.032 (117)
PURCHASED POWER COST PER KWH	0.049 (28)	0.045 (125)	0.034 (74)	0.028 (109)
PRODUCTION EXPENSE PER NET KWH	0.0469 (14)	0.0313 (21)	0.0316 (38)	0.0266 (65)
RETAIL CUSTOMERS PER METER READER	3,676 (17)	3,703 (72)	4,287 (50)	4,854 (80)
DISTRIBUTION O&M EXP. PER RETAIL CUSTOMER	75 (28)	67 (119)	60 (72)	71 (90)
DISTRIBUTION O&M EXPENSES PER CIRCUIT MILE	4,650 (16)	2,197 (64)	3,618 (41)	3,616 (68)
CUST. ACCT., SERVICE & SALES EXPENSE PER RETAIL CUSTOMER	34 (28)	29 (119)	21 (72)	35 (90)
ADMINISTRATIVE AND GENERAL EXPENSE PER RETAIL CUSTOMER	110 (28)	46 (119)	73 (72)	73 (90)
LABOR EXPENSE PER WORKER-HOUR	18.11 (14)	12.96 (66)	14.42 (48)	16.49 (78)
OSHA INCIDENCE RATE (PER 100 EMPLOYEES)	7.92 (10)	5.03 (70)	4.20 (49)	5.11 (76)

Numbers shown are median values. The number of responses for each category is shown in parentheses.

Hours worked includes total productive hours spent at work. Hours paid but not worked, such as on holidays or other paid leave time, are not included.

OSHA Incidence Rate is the ratio of lost workday cases during the year to the total worker-hours of exposure, per 100 employees. This ratio measures the proportion of employees subject to on-the-job injuries and illnesses over the course of the year. Worker-hours of exposure are calculated by adding the total full-time and part-time annual hours worked. Lost workday cases are those which involve days away from work or days of restricted work activity because of non-fatal occupational illness or injury.

The System Average Interruptible Duration Index is the ratio of annual customer minutes off the system to the total number of retail customers served. It measures the average length of time each customer can expect to be without power during a year.

The SAIDI ratio is not included in the customer class or regional summaries on the tables above and on page 30 because the minimum outage duration used by a utility to calculate SAIDI is a more important factor influencing the ratio. The complete report provides a summary of the SAIDI ratio by minimum outage duration. **PP**

REGIONS — The regions correspond to individual or combined regions of the North American Electric Reliability Council (NERC), as described below.

Northeast — includes the Northeast Power Coordinating Council (Connecticut, Maine, Massachusetts, New Hampshire, New York, Rhode Island, Vermont) and the Mid-Atlantic Area Council (Delaware, eastern Maryland, New Jersey and central and eastern Pennsylvania).

Southeast — includes Southeastern Electric Reliability Council (Alabama, Florida, Georgia, eastern Mississippi, North Carolina, South Carolina, Tennessee, eastern Virginia).

North Central/Plains — includes East Central Area Reliability Coordination Agreement (Indiana, Kentucky, western Maryland, Michigan, Ohio, western Pennsylvania, western Virginia, West Virginia), Mid-America Interconnected Network (Illinois, Michigan's upper peninsula, eastern Missouri, eastern Wisconsin), Mid-continent Area Power Pool (Iowa, Minnesota, eastern Montana, Nebraska, North Dakota, South Dakota, western Wisconsin).

Southwest/West — includes Southwest Power Pool (Arkansas, Kansas, Louisiana, western Missouri, western Mississippi, southeast New Mexico, Oklahoma, northwest Texas) Electric Reliability Council of Texas, Western Systems Coordinating Council (Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, Wyoming), and Alaska Systems Coordination Council.

MANAGEMENT SALARIES

by Diane Moody

General managers of locally owned electric utilities earned a mean (average) salary of $50,283 as of June 1, 1991 and the median was $46,356, according to data collected by the American Public Power Association and published in its *1991 Survey of Management Salaries in Local Publicly Owned Electric Utilities.*

APPA collected data on 16 managerial occupations for public power systems with annual electric revenues of $10 million or more and on eight managerial occupations from utilities with less than $10 million. Data are based on responses of 843 local public power systems. Of the respondents, 57 percent are utilities with less than $5 million in annual electric revenues and 83 percent had revenues below $20 million. Only 7 percent of respondents had revenues of $50 million or more and 4 percent had revenues of $100 million or more.

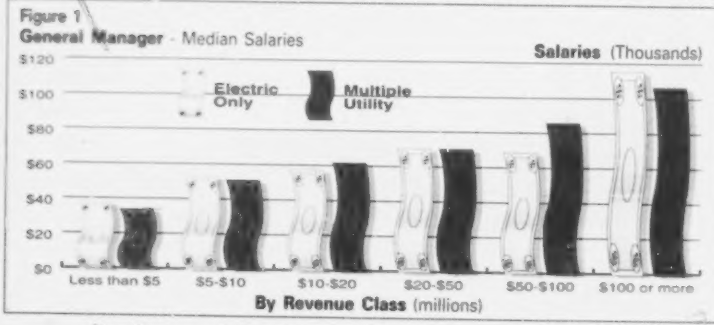


Figure 1
General Manager - Median Salaries

The survey shows that utilities serving a larger customer base, and, hence, earning higher revenues, pay higher salaries. For general managers, median salaries range from $35,000 in the smallest revenue class (less than $5 million) to $106,500 in the largest revenue class ($100 million or more). Mean salaries for general managers range from $35,443 in the smallest revenue class to $115,276 in the largest revenue class. Table 1 shows the median salaries, by revenue class, of 16 utility occupations; Table 2 shows median salaries by customer size class.

The data show no clear trend between general manager salaries and number of utility services provided. About two-thirds of the respondents indicated that their utilities provide gas, water, sewer, wastewater or trash collection services in addition to electric power. When broken down by revenue class, median salaries of general managers in multiple utilities exceed the salaries of general managers in electric-only utilities in two revenue classes, while salaries of general managers of electric-only utilities exceed those of general managers in multiple-sevices utilities in four revenue classes, including the very smallest and the very largest. See Figure 1.

When examined by customer class, median salaries of general managers in electric-only utilities are higher than salaries of general managers in multiple utilities for the two lower customer classes. For the four higher customer classes, salaries are higher for general managers in multiple-service utilities. See Figure 2. Caution should be used in interpreting the results because both revenue and customer classes are broadly defined. Salaries for utilities in the lower end of a given class are more likely to be below the median, while salaries for utilities at the higher end of the class are more likely to be above the median.

The complete report also shows the middle range for each category. The middle range shows the high and low salaries for the middle 50 percent of respondents. In other words, 25 percent of the respondents in each class had salaries below the middle range and 25 percent had salaries above the middle range. This measure gives a more accurate indication of salary distribution than the median value.

The complete report, *1991 Survey of Management Salaries in Local Publicly Owned Electric Utilities*, can be purchased from the American Public Power Association. Copies are available to APPA members for $25 and to others for $125. To order a copy write: Publications Department, American Public Power Association, 2301 M St. N.W., Washington, D.C. 20037-1484. **PP**

TABLE 1
Median Salaries, by Revenue Class

Occupation	Revenue Class (Millions) Less than $5	$5-$10	$10-$20	$20-$50	$50-$100	$100 or More
General Manager	$35,000	$51,155	$58,284	$69,500	$79,528	$106,500
Assistant General Manager	26,390	40,788	45,296	57,589	66,390	85,973
Chief Engineer	31,500	40,290	46,764	51,149	56,952	74,935
Director of Power Supply Planning	—	—	52,187	58,011	61,870	71,950
Steam Plant Superintendent +	27,300	37,906	47,328	50,923	61,994	67,258
Supervisory Engineer ++	29,827	37,448	42,952	46,746	48,002	58,915
Line Division Superintendent +++	28,602	37,106	43,065	47,283	53,448	61,992
Construction Superintendent	—	—	40,871	48,666	50,038	55,281
Chief Financial Manager	29,693	36,457	43,478	51,035	60,737	74,445
Chief Accountant	—	—	35,796	35,932	43,798	59,879
Rate Analyst	—	—	34,764	42,900	42,180	51,330
Personnel Director	—	—	36,500	38,106	51,562	60,840
Director of Customer Services	21,500	28,148	31,969	36,951	44,400	62,000
Data Processing Manager	—	—	38,916	40,718	51,612	59,197
Communications Director	—	—	40,162	37,265	38,861	52,036
Staff Legal Counsel	—	—	48,478	60,297	71,652	77,286

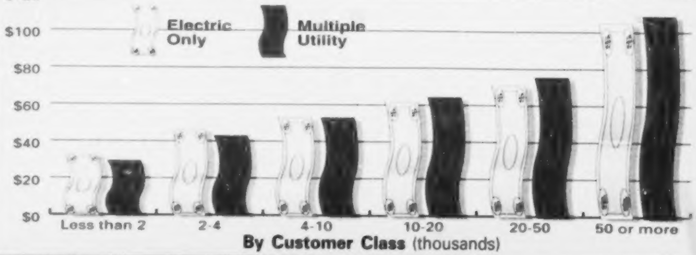
NOTES:
+ Production Superintendent for utilities with $10 million or less in electric revenues is included in this occupational classification.
++ Operations Superintendent for utilities with $10 million or less in electric revenues is included in this occupational classification.
+++ Line Superintendent for utilities with $10 million or less in electric revenues is included in this occupational classification.

TABLE 2
Median Salary Values, by Customer Size Class

Occupation	Customer Size Class (Thousands) Less than 2	2-4	4-10	10-20	20-50	50 or more
General Manager	$29,600	$43,200	$52,195	$62,450	$72,730	$107,619
Assistant General Manager	24,279	35,812	41,850	48,553	61,632	85,773
Chief Engineer	26,524	33,529	38,790	49,208	54,496	75,072
Director of Power Supply Planning	—	—	—	52,187	60,710	71,316
Steam Plant Superintendent +	23,343	31,116	39,388	49,033	54,912	68,325
Supervisory Engineer ++	25,160	34,502	39,025	45,477	46,746	58,915
Line Division Superintendent +++	26,000	32,744	37,226	45,536	52,530	61,573
Construction Superintendent	—	—	39,000	45,543	48,577	55,281
Chief Financial Manager	23,214	33,924	38,500	48,500	52,718	73,243
Chief Accountant	—	—	34,406	35,202	40,512	59,879
Rate Analyst	—	—	—	37,543	42,540	50,820
Personnel Director	—	—	34,228	38,636	43,294	60,840
Director of Customer Services	19,559	25,800	28,935	35,040	42,393	61,924
Data Processing Manager	—	—	31,500	39,631	46,774	59,816
Communications Director	—	—	—	37,483	37,769	51,984
Staff Legal Counsel	—	—	39,402	56,762	60,593	83,793

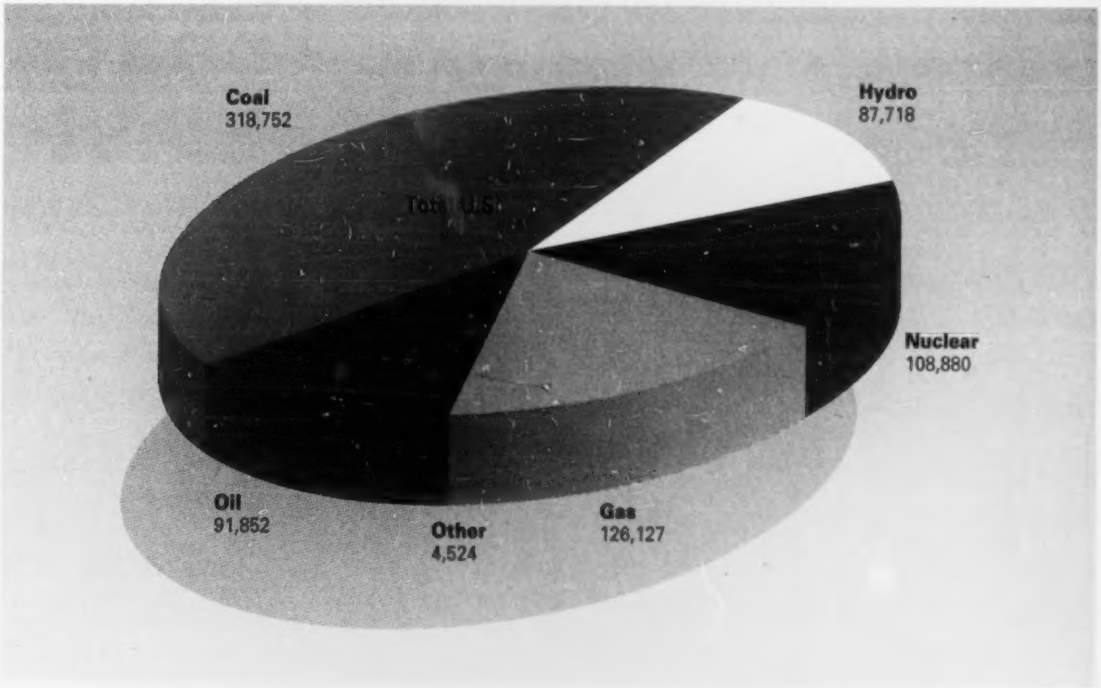
NOTES:
+ Production Superintendent for utilities with $10 million or less in electric revenues is included in this occupational classification.
++ Operations Superintendent for utilities with $10 million or less in electric revenues is included in this occupational classification.
+++ Line Superintendent for utilities with $10 million or less in electric revenues is included in this occupational classification.

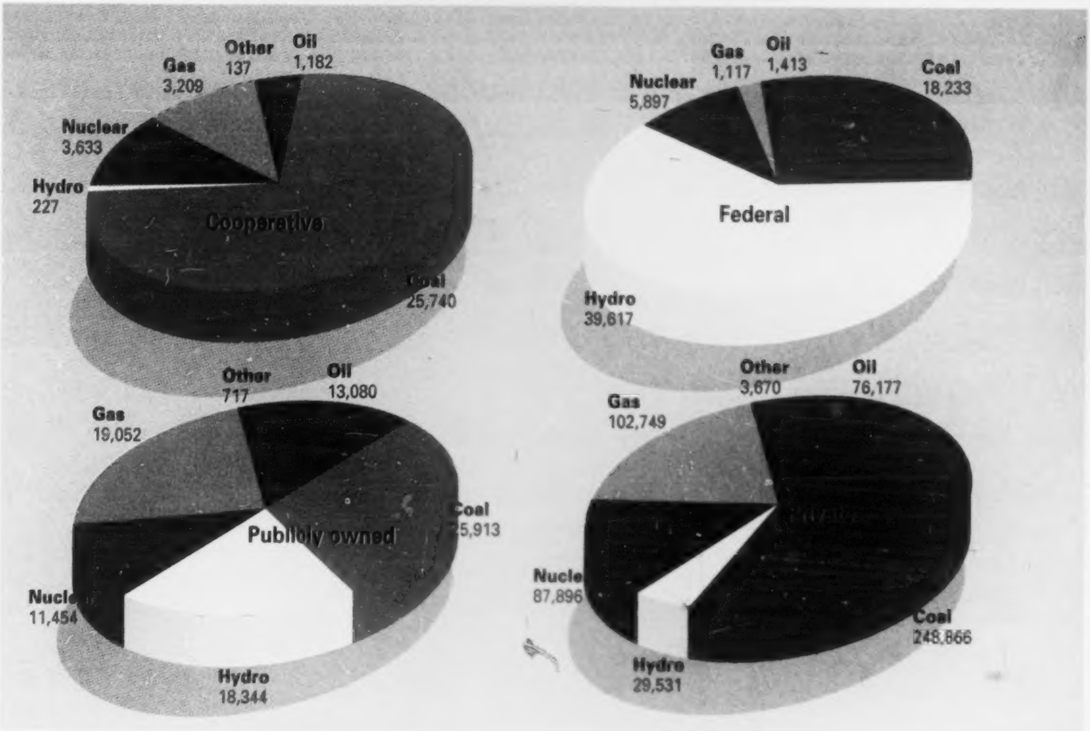
Figure 2
General Manager - Median Salaries



U.S. Electric Utility Generating Capacity, 1990

Nameplate capacity in megawatts. Numbers reflect joint ownership and include Puerto Rico.





20 Largest State & Local Publicly Owned Electric Systems

ELECTRIC CUSTOMERS SERVED - 1990 (Ultimate customers served.)

1	Los Angeles Department of Water and Power	1,306,940
2	Puerto Rico Electric Power Authority	1,160,017
3	Salt River Project, Phoenix, Ariz.	526,641
4	San Antonio City Public Service, Texas	469,262
5	Sacramento Municipal Utility District, California	449,229
6	Memphis Light , Gas and Water Division, Tennessee	363,482
7	Seattle City Light, Washington	325,337
8	Jacksonville Electric Authority, Florida	291,072
9	Nashville Electric Service, Tennessee	269,163
10	Austin Utilities, Texas	266,064
11	Omaha Public Power District, Nebraska	249,055
12	Public Utility District No. 1 of Snohomish County, Washington	203,409
13	Orlando Utilities Commission, Florida	152,923
14	Knoxville Utilities, Tennessee	148,810
15	Colorado Springs Utilities, Colorado	144,398
16	Chattanooga Electric Power Board, Tennessee	141,739
17	Tacoma City Light, Washington	127,479
18	Nebraska Public Power District	105,855
19	Huntsville Utilities, Alabama	105,710
20	Clark Public Utilities, Washington	102,702

ELECTRIC REVENUES - 1990 (Revenues from sales to ultimate customers and from sales for resale)

1	Los Angeles Department of Water and Power	$1,852,914,000
2	Puerto Rico Electric Power Authority	1,294,507,000
3	New York Power Authority	1,231,538,000
4	Salt River Project, Phoenix, Ariz.	1,146,364,000
5	San Antonio Public Service, Texas	670,333,000
6	Sacramento Municipal Utility District, California	648,797,000
7	Intermountain Power Agency, Utah	626,950,000
8	Memphis Light, Gas and Water Division, Tennessee	613,711,000
9	Municipal Electric Authority of Georgia	569,706,000
10	Jacksonville Electric Authority, Florida	565,540,000
11	Washington Public Power Supply System	564,638,000
12	South Carolina Public Service Authority (Santee Cooper)	548,066,000
13	Nashville Electric Service, Tennessee	531,807,000
14	Nebraska Public Power District	459,098,000
15	North Carolina Municipal Power Agency	432,647,000
16	Austin Utilities, Texas	426,515,000
17	Omaha Public Power District, Nebraska	381,137,000
18	North Carolina Eastern Municipal Power Agency	372,179,000
19	Lower Colorado River Authority, Texas	301,596,000
20	Seattle City Light, Washington	284,463,000

KILOWATT-HOUR SALES - 1990 (Sales to ultimate customers and sales for resale)

1	New York Power Authority	38,167,398,000
2	Los Angeles Department of Water and Power	22,081,808,000
3	Salt River Project, Phoenix, Ariz.	17,526,006,000
4	South Carolina Public Service Authority (Santee Cooper)	13,548,254,000
5	Nebraska Public Power District	12,987,140,000
6	Puerto Rico Electric Power Authority	12,916,209,000
7	Intermountain Power Agency, Utah	12,705,885,000
8	San Antonio City Public Service, Texas	11,825,967,000
9	Memphis Light, Gas and Water Division, Tennessee	11,106,179,000
10	Public Utility District No. 1 of Chelan County, Washington	10,808,736,000
11	Public Utility District No. 2 of Grant County, Washington	9,844,931,000
12	Municipal Electric Authority of Georgia	9,726,757,000
13	Nashville Electric Service, Tennessee	9,626,475,000
14	Seattle City Light, Washington	8,997,016,000
15	Jacksonville Electric Authority, Florida	8,730,408,000
16	Sacramento Municipal Utility District, California	8,264,599,000
17	Lower Colorado River Authority, Texas	7,916,759,000
18	North Carolina Municipal Power Agency	7,857,553,000
19	Tacoma City Light, Washington	6,855,089,000
20	Austin Utilities, Texas	6,794,947,000

Utility Rate Comparison By State, 1989
(dollars per kilowatt-hour)

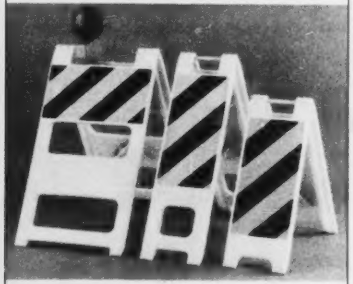
STATE	RESIDENTIAL			COMMERCIAL			INDUSTRIAL		
	PUBLIC	PRIVATE	CO-OP	PUBLIC	PRIVATE	CO-OP	PUBLIC	PRIVATE	CO-OP
ALABAMA	$0.057	$0.069	$0.067	$0.067	$0.067	$0.071	$0.050	$0.044	$0.053
ALASKA	0.096	0.100	0.099	0.086	0.145	0.085	0.096	0.078	0.073
ARIZONA	0.082	0.093	0.101	0.072	0.087	0.092	0.044	0.059	0.053
ARKANSAS	0.065	0.080	0.077	0.064	0.067	0.072	0.040	0.052	0.040
CALIFORNIA	0.080	0.099	0.079	0.080	0.095	0.093	0.069	0.072	0.068
COLORADO	0.059	0.072	0.075	0.055	0.056	0.070	0.041	0.045	0.053
CONNECTICUT	0.084	0.096	—	0.090	0.087	—	0.065	0.073	—
DELAWARE	0.078	0.083	0.080	0.076	0.066	0.076	0.054	0.042	0.046
FLORIDA	0.075	0.077	0.085	0.071	0.065	0.081	0.059	0.047	0.070
GEORGIA	0.068	0.073	0.073	0.074	0.072	0.073	0.050	0.046	0.050
HAWAII	—	0.091	—	—	0.090	—	—	0.064	—
IDAHO	0.037	0.047	0.056	0.044	0.040	0.050	0.033	0.025	0.032
ILLINOIS	0.064	0.102	0.096	0.063	0.079	0.085	0.056	0.054	0.064
INDIANA	0.060	0.069	0.074	0.058	0.061	0.070	0.047	0.040	0.059
IOWA	0.059	0.078	0.077	0.057	0.065	0.070	0.045	0.040	0.052
KANSAS	0.070	0.076	0.092	0.061	0.063	0.092	0.043	0.048	0.063
KENTUCKY	0.052	0.052	0.064	0.052	0.051	0.066	0.046	0.029	0.045
LOUISIANA	0.070	0.072	0.081	0.064	0.071	0.084	0.069	0.042	0.068
MAINE	0.084	0.085	0.100	0.081	0.073	0.090	0.071	0.053	0.092
MARYLAND	0.057	0.068	0.074	0.059	0.066	0.069	0.041	0.047	0.060
MASSACHUSETTS	0.088	0.092	0.083	0.094	0.080	0.081	0.089	0.069	—
MICHIGAN	0.063	0.076	0.084	0.065	0.080	0.077	0.053	0.056	0.066
MINNESOTA	0.059	0.065	0.074	0.059	0.057	0.071	0.048	0.040	0.057
MISSISSIPPI	0.058	0.072	0.067	0.065	0.072	0.073	0.053	0.050	0.052
MISSOURI	0.063	0.078	0.071	0.055	0.067	0.063	0.049	0.053	0.039
MONTANA	0.045	0.054	0.057	0.044	0.044	0.056	0.067	0.033	0.047
NEBRASKA	0.062	—	0.066	0.057	—	0.064	0.041	—	0.079
NEVADA	0.043	0.058	0.063	0.040	0.061	0.059	0.017	0.050	0.040
NEW HAMPSHIRE	0.071	0.097	0.087	0.080	0.088	0.088	0.060	0.068	0.065
NEW JERSEY	0.093	0.101	0.116	0.097	0.087	0.126	0.065	0.072	0.113
NEW MEXICO	0.083	0.088	0.102	0.080	0.084	0.079	0.060	0.051	0.059
NEW YORK	0.038	0.112	0.079	0.041	0.100	0.080	0.022	0.061	0.055
NORTH CAROLINA	0.078	0.074	0.085	0.067	0.061	0.082	0.062	0.045	0.065
NORTH DAKOTA	0.042	0.061	0.064	0.045	0.064	0.067	0.038	0.050	0.049

Utility Rate Comparison By State, 1989 (continued)

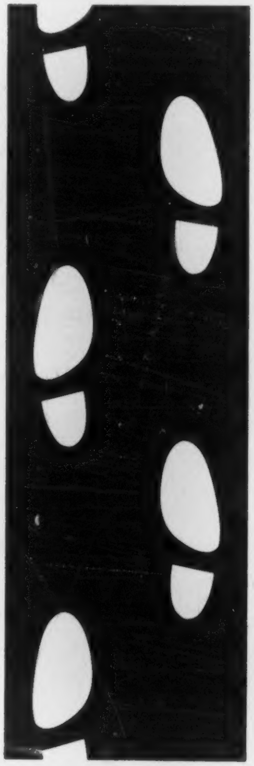
STATE	RESIDENTIAL			COMMERCIAL			INDUSTRIAL		
	PUBLIC	PRIVATE	CO-OP	PUBLIC	PRIVATE	CO-OP	PUBLIC	PRIVATE	CO-OP
OHIO	$0.064	$0.079	$0.069	$0.063	$0.073	$0.070	$0.049	$0.038	$0.040
OKLAHOMA	0.069	0.065	0.078	0.070	0.055	0.076	0.039	0.035	0.055
OREGON	0.038	0.050	0.052	0.035	0.051	0.050	0.027	0.038	0.041
PENNSYLVANIA	0.074	0.089	0.099	0.072	0.078	0.092	0.061	0.058	0.077
RHODE ISLAND	0.113	0.090	—	0.128	0.080	—	0.118	0.075	—
SOUTH CAROLINA	0.066	0.072	0.074	0.061	0.062	0.067	0.036	0.044	0.050
SOUTH DAKOTA	0.041	0.076	0.072	0.045	0.076	0.069	0.036	0.049	0.058
TENNESSEE	0.056	0.048	0.059	0.060	0.050	0.066	0.051	0.014	0.052
TEXAS	0.067	0.070	0.072	0.060	0.060	0.069	0.051	0.040	0.052
UTAH	0.061	—	0.066	0.062	—	0.071	0.044	—	0.054
VERMONT	0.084	0.089	0.099	0.088	0.081	0.107	0.085	0.059	0.073
VIRGINIA	0.056	0.069	0.078	0.059	0.060	0.082	0.048	0.041	0.047
WASHINGTON	0.036	0.052	0.046	0.033	0.050	0.041	0.024	0.027	0.034
WEST VIRGINIA	0.058	0.059	0.074	0.060	0.054	0.088	0.050	0.036	0.061
WISCONSIN	0.054	0.067	0.074	0.057	0.059	0.068	0.044	0.040	0.047
WYOMING	0.058	0.056	0.067	0.053	0.051	0.056	0.049	0.038	0.051

Source: Department of Energy/Energy Information Administration 1989 Form EIA-861.

PLASTICADES,
NARROWCADES,
MINICADES AND
A FRAMES, ETC.



BEST BARRICADE
1 (800) 772-9510



Make Tracks...

...to your nearest mailbox and send for the latest copy of the **free** Consumer Information Catalog.

It lists about 200 free or low-cost government publications on topics like health, nutrition, careers, money management, and federal benefits.

Take a step in the right direction and write today for the free Consumer Information Catalog. Just send your name and address to:

**Consumer Information Center
Department MT
Pueblo, Colorado 81009**

A public service of this publication and the Consumer Information Center of the U.S. General Services Administration.

U.S. Electric Utility Statistics

Statistics for publicly owned systems, private systems, cooperative systems and federal systems are based on Energy Information Administration Forms EIA-860 and EIA-861. Some adjustments have been made by APPA.

Number of Utilities	**(1990)**
Publicly owned systems*	2,010
Private power companies	266
Cooperative systems	951
Federal power agencies**	10

* Reflects only those utilities which file Form EIA-861 with the Energy Information Administration.

Includes Alaska Power Administration, Bonneville Power Administration, Southeastern Power Administration, Southwestern Power Administration, Western Area Power Administration, Tennessee Valley Authority, U.S. Army Corps of Engineers, Bureau of Reclamation, Bureau of **Indian Affairs and International Water and Boundary Commission. For additional information on federal systems, see page 144.

Number of Ultimate customers	**1990**	**Percent**
Publicly owned systems	16,322,655	14.8
Private	82,434,572	74.6
Cooperatives	11,656,331	10.6
Federal	24,748	0.0
TOTAL	110,438,306	100.0

Kilowatt-Hour Sales to Ultimate Customers (in millions of kWh)	**1990**	**Percent**
Publicly owned systems	400,221	14.7
Private	2,071,069	75.9
Cooperatives	200,825	7.4
Federal	54,687	2.0
TOTAL	2,726,802	100.0

Electric Revenues from Sales to Ultimate Customers (in thousands of dollars)	**1990**	**Percent**
Publicly owned systems	24,132,490	13.4
Private	140,158,333	78.0
Cooperatives	13,694,276	7.6
Federal	1,678,251	1.0
TOTAL	179,663,350	100.0

Installed Capacity (in thousands of kilowatts)	**1990**	**Percent**
Publicly owned systems	88,560	12.0
Private	548,889	74.4
Cooperatives	34,128	4.6
Federal	66,276	9.0
TOTAL	737,853	100.0

Note: Installed capacity includes adjustments for joint ownership. In prior years, these adjustments were not made to the summary data. Data reflect utilities that file Form EIA-860, plus Puerto Electric Power Authority.

Kilowatt-Hour Generation (in millions of kWh)	**1990**	**Percent**
Publicly owned systems	319,623	11.3
Private	2,112,484	74.4
Cooperative	152,231	5.4
Federal	253,430	8.9
TOTAL	2,837,768	100.0

Number of State and Local Publicly Owned Electric Utilities, By State, 1991

Figures include operating joint action agencies

Alabama	37
Alaska	39
American Samoa	1
Arizona	25
Arkansas	15
California	46
Colorado	32
Connecticut	7
Delaware	9
Florida	35
Georgia	53
Guam	1
Idaho	11
Illinois	42
Indiana	73
Iowa	138
Kansas	123
Kentucky	29
Louisiana	23
Maine	5
Maryland	5
Massachusetts	42
Michigan	43
Minnesota	129
Mississippi	24
Missouri	91
Montana	1
Nebraska	159
Nevada	8
New Hampshire	5
New Jersey	9
New Mexico	7
New York	50
North Carolina	75
North Dakota	11
Ohio	85
Oklahoma	65
Oregon	17
Pennsylvania	34
Puerto Rico	1
Rhode Island	1
South Carolina	23
South Dakota	36
Tennessee	63
Texas	80
Utah	43
Vermont	16
Virgin Islands	1
Virginia	16
Washington	43
West Virginia	2
Wisconsin	83
Wyoming	14
Total	**2,026**

State and Local Electric Systems

Alabama

(Systems designated (TVA) are distributors of Tennessee Valley Authority power and purchase all of their power from TVA.)

Alabama Municipal Electric Authority†*
555 S. Perry St., Suite 210,
Drawer 5220
Montgomery, Ala. 36103
(205) 262-1126
Robert W. Claussen, General Manager
customers: wholesale only
1990 MWh generated: 0
1990 MWh purchased: 2,039,015
1990 MWh sold: wholesale: 2,039,015
1990 revenues: wholesale:
$78,395,000
established 1981
(see expanded joint action agency section page 140)

Albertville, City of*
Box 130
Albertville, Ala. 35950
(205) 878-3761
David Scarbrough, General Manager
customers: 9,047
1990 MWh generated: 0
1990 MWh purchased: 395,520 (TVA)
1990 MWh sold: 383,295
1990 revenues: $19,011,000
established 1938

Alexander City, City of†*
Russell Road, Box 637
Alexander City, Ala. 35010
(205) 329-8426
Lamar Hunter, Superintendent
customers: 6,348
1990 MWh generated: 0
1990 MWh purchased: 118,098
1990 MWh sold: 112,219
1990 revenues: $5,999,000
established 1930

Andalusia Utilities Department
Box 790
Andalusia, Ala. 36420
(205) 222-1332
Joe Traywick, Director of Utilities
customers: 4,459
1990 MWh generated: 0
1990 MWh purchased: 218,491
1990 MWh sold: 210,322
1990 revenues: $10,458,000
established 1944

City of Athens Utilities
Box 1089
Athens, Ala. 35611
(205) 232-1440
T. T. Craven, General Manager
customers: 25,705
1990 MWh generated: 0
1990 MWh purchased: 611,484 (TVA)
1990 MWh sold: 562,221
1990 revenues: $32,449,000
established 1914

Bessemer, City of*
1600 First Ave.
Bessemer, Ala. 35020
(205) 424-2304
Office Manager
customers: 12,775
1990 MWh generated: 0
1990 MWh purchased: 305,504 (TVA)
1990 MWh sold: 287,101
1990 revenues: $16,191,000
established 1939

Brundidge, City of
Box 338
Brundidge, Ala. 36010
(205) 735-2321
Jack V. Taylor, Manager
customers: 1,286
1990 MWh generated: 0
1990 MWh purchased: 29,000
1990 MWh sold: 24,000
1990 revenues: $1,741,000
established 1950

Courtland, City of
Box 160
Courtland, Ala. 35618
(205) 637-2707
Denzel Reding, Superintendent
customers: 868
1990 MWh generated: 0
1990 MWh purchased: 16,407 (TVA)
1990 MWh sold: 15,345
1990 revenues: $937,000
established 1935

Cullman Power Board*
204 Second Ave., Drawer 927
Cullman, Ala. 35056
(205) 734-2343
Jim Garrett, General Manager
customers: 7,312
1990 MWh generated: 0
1990 MWh purchased: 290,370 (TVA)
1990 MWh sold: 273,366
1990 revenues: $15,451,000
established 1947

Decatur Utilities
110 Johnson St. S.E., Box 2232
Decatur, Ala. 35609
(205) 552-1440
George Godwin, General Manager
customers: 23,216
1990 MWh generated: 0
1990 MWh purchased: 1,322,225 (TVA)
1990 MWh sold: 1,291,524
1990 revenues: $58,984,000
established 1939

Dothan, City of†*
3100 S. Park Ave.
Dothan, Ala. 36301
(205) 671-1622
James C. Kilgore, P.E., Superintendent
customers: 25,827
1990 MWh generated: 0
1990 MWh purchased:
  from utilities: 908,160
  from nonutilities: 23,967
1990 MWh sold: 843,590
1990 revenues: $47,870,000
established 1903

Elba, City of
200 Buford St.
Elba, Ala. 36323
(205) 897-2261
Ed Compton, Superintendent
customers: 4,022
1990 MWh generated: 0
1990 MWh purchased: 40,819
1990 MWh sold: 35,811
1990 revenues: $2,740,000

Evergreen, City of
Box 229
Evergreen, Ala. 36401
(205) 578-1574
Curtis Hamilton, City Administrator
customers: 1,906
1990 MWh generated: 0
1990 MWh purchased:
  from utilities: 50,000
  from nonutilities: 7,000
1990 MWh sold: 50,000
1990 revenues: $2,593,000

Fairhope, City of†*
161 N. Section St., Drawer 429
Fairhope, Ala. 36533
(205) 928-2136
Aaron Norris, Superintendent
customers: 4,189
1990 MWh generated: 0
1990 MWh purchased: 93,654
1990 MWh sold: 86,730
1990 revenues: $5,717,000
established 1923

Florence, City of*
110 W. College St., Box 877
Florence, Ala. 35631
(205) 760-6440
Howard McClanahan, Manager
customers: 37,831
1990 MWh generated: 0
1990 MWh purchased: 948,695 (TVA)
1990 MWh sold: 898,479
1990 revenues: $53,504,000
established 1936

Fort Payne Improvement Authority
118 Godfrey Ave. S.E.
Fort Payne, Ala. 35967
(205) 845-0671
Steve Sax, Manager
customers: 8,056
1990 MWh generated: 0
1990 MWh purchased: 265,385 (TVA)
1990 MWh sold: 254,514
1990 revenues: $14,781,000
established 1940

Guntersville Electric Board*
325 Gunter Ave.
Guntersville, Ala. 35976
(205) 582-5691
Gary D. Scroggins, Manager
customers: 5,309
1990 MWh generated: 0
1990 MWh purchased: 204,051 (TVA)
1990 MWh sold: 193,296
1990 revenues: $10,987,000
established 1933

Hartford, City of
203 W. Main St.
Hartford, Ala. 36344
(205) 588-2245
Jimmy Bottoms, Superintendent
customers: 1,313
1990 MWh generated: 0
1990 MWh purchased: 24,845
1990 MWh sold: 22,805
1990 revenues: $1,338,000

City of Hartselle Utilities
113 N. Sparkman St., Box 968
Hartselle, Ala. 35640
(205) 773-2533
Kenneth Sharrott Jr., Operations Manager
customers: 4,251
1990 MWh generated: 0
1990 MWh purchased: 124,179 (TVA)
1990 MWh sold: 111,511
1990 revenues: $6,513,000
established 1989

Huntsville Utilities*
112 Spragins St., Box 2048
Huntsville, Ala. 35804
(205) 535-1200
Edward E. Cobb, President
customers: 105,710
1990 MWh generated: 0
1990 MWh purchased: 3,527,960 (TVA)
1990 MWh sold: 3,344,932
1990 revenues: $178,390,000
established 1940

Lafayette, City of†*
Box 87
Lafayette, Ala. 36862
(205) 864-9581
Gene Lamb, Electrical Superintendent
customers: 1,360
1990 MWh generated: 0
1990 MWh purchased: 40,053
1990 MWh sold: 36,388
1990 revenues: $2,205,000
established 1911

Lanett, City of†*
401 N. Lanier Ave.
Lanett, Ala. 36863
(205) 644-2141
Ross Whitman, Superintendent of Utilities
customers: 3,227
1990 MWh generated: 0
1990 MWh purchased: 51,543
1990 MWh sold: 47,335
1990 revenues: $3,236,000

Luverne, City of†*
106 E. Fifth St.
Luverne, Ala. 36049
(205) 335-3741
Bobby Langford, Superintendent
customers: 1,569
1990 MWh generated: 0
1990 MWh purchased: 36,766
1990 MWh sold: 34,346
1990 revenues: $2,003,000

Muscle Shoals Electric Board*
1000 Avalon Ave., Box 2547
Muscle Shoals, Ala. 35660
(205) 386-9290
Rickey J. Thomas, Manager
customers: 4,844
1990 MWh generated: 0
1990 MWh purchased: 183,254 (TVA)
1990 MWh sold: 172,161
1990 revenues: $10,194,000
established 1933

Opelika, City of†*
1010 Ave. C, Box 390
Opelika, Ala. 36801
(205) 745-4681
Mark Ennis, Director of Light & Power
customers: 9,841
1990 MWh generated: 0
1990 MWh purchased: 329,000
1990 MWh sold: 312,000
1990 revenues: $17,253,000
established 1910

Opp, City of
106 N. Main St.
Opp, Ala. 36467
(205) 493-4571
Charles D. McGowan, Manager
customers: 3,139
1990 MWh generated: 0
1990 MWh purchased: 70,482
1990 MWh sold: 63,920
1990 revenues: $4,230,000
established 1943

Piedmont, City of†*
109 N. Center Ave., Box 112
Piedmont, Ala. 36272
(205) 447-9007
Brent Morrison, City Administrator

---

* Member, American Public Power Association
† Member, Demonstration of Energy-Efficient Developments Program

customers: 3,451
1990 MWh generated: 0
1990 MWh purchased: 41,686
1990 MWh sold: 36,725
1990 revenues: $2,700,000

Riviera Utilities†*
413 E. Laurel Ave., Drawer 550
Foley, Ala. 36536
(205) 943-5001
H. Sewell St. John Jr.,
General Manager
customers: 20,019
1990 MWh generated: 0
1990 MWh purchased: 430,104
1990 MWh sold: 405,736
1990 revenues: $27,269,000
established 1941

Robertsdale, City of
Box 429
Robertsdale, Ala. 36567
(205) 947-2144
Paul N. Edhegard, Superintendent of Utilities
customers: 1,447
1990 MWh generated: 0
1990 MWh purchased: 35,000
1990 MWh sold: 29,000
1990 revenues: $2,349,000
established 1924

Russellville, City of
400 N. Jackson Ave., Box 1148
Russellville, Ala. 35653
(205) 332-3850
Ralph Bishop, Manager
customers: 4,408
1990 MWh generated: 0
1990 MWh purchased: 111,508 (TVA)
1990 MWh sold: 106,123
1990 revenues: $6,244,000
established 1938

Scottsboro Electric Power Board*
Box 550
Scottsboro, Ala. 35768
(205) 574-2680
E. Gene Rose, Manager
customers: 7,081
1990 MWh generated: 0
1990 MWh purchased: 320,474 (TVA)
1990 MWh sold: 306,744
1990 revenues: $15,612,000
established 1939

Sheffield Utilities*
300 N. Nashville Ave., Box 580
Sheffield, Ala. 35660
(205) 389-2000
Jimmy Barnett, General Manager
customers: 18,367
1990 MWh generated: 0
1990 MWh purchased: 404,451 (TVA)
1990 MWh sold: 373,485
1990 revenues: $22,731,000
established 1936

Sylacauga Utilities Board†*
225 N. Norton Ave., Box 207
Sylacauga, Ala. 35150
(205) 249-8501
Dale H. Baker, General Manager
customers: 5,673
1990 MWh generated: 0
1990 MWh purchased: 166,433
1990 MWh sold: 155,731
1990 revenues: $10,017,000
established 1955

City of Tarrant
1604 Pinson Valley Pkwy., Box 170220
Tarrant, Ala. 35217
(205) 841-1721
Charles Hartsell, Manager
customers: 3,793
1990 MWh generated: 0
1990 MWh purchased: 85,208 (TVA)
1990 MWh sold: 81,167
1990 revenues: $5,235,000
established 1933

Troy, City of
Box 549
Troy, Ala. 36081
(205) 566-2130
Lane Linton, Utilities Engineer
customers: 5,755
1990 MWh generated: 0
1990 MWh purchased: 213,550
1990 MWh sold: 194,004
1990 revenues: $10,777,000
established 1895

Tuscumbia, City of†*
202 E. Sixth St., Box 269
Tuscumbia, Ala. 35674
(205) 383-0321
David B. Thornton, Manager
customers: 3,802
1990 MWh generated: 0
1990 MWh purchased: 92,387 (TVA)
1990 MWh sold: 87,243
1990 revenues: $5,009,000
established 1937

Tuskegee, City of†*
101 Fonville St.
Tuskegee, Ala. 36083
(205) 724-2133
Vernon Presley, Superintendent
customers: 7,128
1990 MWh generated: 0
1990 MWh purchased: 139,080
1990 MWh sold: 124,477
1990 revenues: $8,357,000
established 1937

Alaska

Akutan Electric Utility
General Delivery
Akutan, Alaska 99553
(907) 698-2228
Tom McGlashan, Power Plant Manager
customers: 37
nameplate capacity (kW): unavailable
1990 MWh generated: 296
1990 MWh purchased: 0
1990 MWh sold: 282
1990 revenues: $104,000
established 1982

Alaska Energy Authority†*
701 E. Tudor Rd., Box 190869
Anchorage, Alaska 99519-0869
(907) 561-7877
Charlie Bussell, Executive Director
customers: wholesale only
nameplate capacity (kW): hydro: 45,200
1990 MWh generated: 277,669
1990 MWh purchased: 0
1990 MWh sold: wholesale: 269,880
1990 revenues: wholesale: $16,966,000
established 1976

Anchorage Light & Power Dept.*
1200 E. First Ave.
Anchorage, Alaska 99501
(907) 279-7671
Thomas R. Stahr, General Manager
customers: 33,302
nameplate capacity (kW): gas: 301,667; oil: 2,236; other: 33,000
1990 MWh generated: 774,710
1990 MWh purchased: 106,888
1990 MWh sold: retail: 792,397
wholesale: 50,207
1990 revenues: retail: $64,790,000
wholesale: $2,034,000
established 1932

Birch Creek Electric Utility
Box 61593
Fairbanks, Alaska 99706
(907) 479-5527
Jeff Weltzin, Utility Administrator
customers: 27
nameplate capacity (kW): unavailable
1990 MWh generated: 105
1990 MWh purchased: 0
1990 MWh sold: 99
1990 revenues: $54,000

Chefornak, City of
Box 11
Chefornak, Alaska 99561
(907) 867-8528
customers: 80
nameplate capacity (kW): unavailable
1990 MWh generated: 396
1990 MWh purchased: 0
1990 MWh sold: 396
1990 revenues: $159,000

Chignik, City of
General Delivery
Chignik, Alaska 99564
(907) 749-2280
Walton Smith, City Administrator
customers: 60
nameplate capacity (kW): unavailable
1990 MWh generated: 561
1990 MWh purchased: 0
1990 MWh sold: 451
1990 revenues: $82,000
established 1981

Coffman Cove Utilities
Coffman Cove, Alaska
(907) 329-2225
Arlyne Etherington
customers: 80
nameplate capacity (kW): unavailable
1990 MWh generated: 795
1990 MWh purchased: 0
1990 MWh sold: 731
1990 revenues: $155,000

Eagle Village Energy Systems
Box 19
Eagle, Alaska 99738
(907) 547-2270
Mary Lynn Robbins, Administrator
customers: 15
nameplate capacity (kW): unavailable
1990 MWh generated: 39
1990 MWh purchased: 14
1990 MWh sold: 53
1990 revenues: $26,000

Elfin Cove
Lot 13A
Elfin, Alaska 99825
(907) 239-2218
Richard K. Barnes, Bookkeeper
customers: 44
nameplate capacity (kW): unavailable
1990 MWh generated: 252
1990 MWh purchased: 0
1990 MWh sold: 224
1990 revenues: $44,000

Fairbanks Municipal Utilities System
645 Fifth Ave., Box 2215
Fairbanks, Alaska 99707
(907) 456-1000
Utility Superintendent
customers: 5,987
nameplate capacity (kW): coal: 28,500; oil: 28,350
1990 MWh generated: 122,732
1990 MWh purchased: 31,869
1990 MWh sold: retail: 141,851
wholesale: 214
1990 revenues: retail: $15,365,000
wholesale: $15,000
established 1949

Galena, City of
Box 149
Galena, Alaska 99741
(907) 656-1301
Ross Klooster, Manager
customers: 312
nameplate capacity (kW): unavailable
1990 MWh generated: 2,600
1990 MWh purchased: 0
1990 MWh sold: 2,400
1990 revenues: $645,000
established 1985

Igiugig Electric Co.
Box 4027
Igiugig, Alaska 99613
(907) 533-3211
Sandra Alvarez, Administrative Assistant
customers: 29
nameplate capacity (kW): unavailable
1990 MWh generated: 129
1990 MWh purchased: 0
1990 MWh sold: 113
1990 revenues: $57,000

Ipnatchiaq Electric Co.
Deering, Alaska 99736
(907) 363-2157
Roth M. Moto
customers: 56
nameplate capacity (kW): unavailable
1990 MWh generated: 504
1990 MWh purchased: 0
1990 MWh sold: 469
1990 revenues: $177,000

Ketchikan Public Utilities
2930 Tongass Ave.
Ketchikan, Alaska 99901
(907) 225-1000
Thomas W. Stevenson, General Manager
customers: 7,028
nameplate capacity (kW): hydro: 11,200; oil: 17,450
1990 MWh generated: 66,429
1990 MWh purchased: 68,926
1990 MWh sold: 133,564
1990 revenues: $9,614,000
established 1935

King Cove, City of
Box 37
King Cove, Alaska 99612
(907) 497-2340
Cynthia Samuelson, Administrative Officer
customers: 186
nameplate capacity (kW): unavailable
1990 MWh generated: 2,199
1990 MWh purchased: 0
1990 MWh sold: 1,820
1990 revenues: $362,000
established 1950

Klukwan Electric Utilities
Box 210
Haines, Alaska 99827
(907) 767-5505
William Hotch, Manager
customers: 35
nameplate capacity (kW): unavailable
1990 MWh generated: 501
1990 MWh purchased: 0
1990 MWh sold: 471
1990 revenues: $66,000
established 1968

Kokhanok Electric
Box 1007
Kokhanok, Alaska 99606-1007
(907) 282-2202
John Nelson, President
customers: 37
nameplate capacity (kW): unavailable
1990 MWh generated: 14
1990 MWh purchased: 121
1990 MWh sold: 135

ALASKA *(continued)*

1990 revenues: $71,000

Kotlik, City of
Box 92543
Kotlik, Alaska 99620
(907) 899-4111
Benny Kamkoff, Manager
customers: 119
nameplate capacity (kW): unavailable
1990 MWh generated: 537
1990 MWh purchased: 0
1990 MWh sold: 537
1990 revenues: $166,000
established 1982

Kwig Power Co.
Box 30
Kwigillingok, Alaska 99622
(907) 588-8626
William Igkurak, General Manager
customers: 79
nameplate capacity (kW): unavailable
1990 MWh generated: 567
1990 MWh purchased: 0
1990 MWh sold: 476
1990 revenues: $207,000

Larsen Bay, City of
Box 126
Larsen Bay, Alaska 99624
(907) 847-2211
Joe D. Katelnikoff, Manager
customers: 79
nameplate capacity (kW): oil: 300
1990 MWh generated: 507
1990 MWh purchased: 0
1990 MWh sold: 405
1990 revenues: $161,000
established 1984

Manokotak, City of
Box 65
Manokotak, Alaska 99628
(907) 289-1062
Nels C. Franklin, President
customers: 126
nameplate capacity (kW): unavailable
1990 MWh generated: 6,068
1990 MWh purchased: 0
1990 MWh sold: 5,692
1990 revenues: $201,000
established 1976

Metlakatla Power & Light
Box 359
Metlakatla, Alaska 99926
(907) 886-6661
Aavo Taaler, General Manager
customers: 649
nameplate capacity (kW): hydro: 6,400; oil: 7,000
1990 MWh generated: 21,876
1990 MWh purchased: 0
1990 MWh sold: 20,046
1990 revenues: $2,070,000
established 1927

Nightmute Power Plant
Box NME
Nightmute, Alaska 99690
(907) 344-2631
Joseph Post, Mayor
customers: 36
nameplate capacity (kW): unavailable
1990 MWh generated: 288
1990 MWh purchased: 0
1990 MWh sold: 288
1990 revenues: $115,000

Nome Joint Utility System
Fifth Ave. W and K St., Box 70
Nome, Alaska 99762
(907) 443-5288
Joe M. Murphy, General Manager
customers: 1,914
nameplate capacity (kW): oil: 11,635
1990 MWh generated: 27,699
1990 MWh purchased: 0
1990 MWh sold: 25,839
1990 revenues: $4,157,000
established 1960

North Slope Borough Department of Municipal Services
Box 69
Barrow, Alaska 99723
(907) 852-2611
Director
customers: 934
nameplate capacity (kW): unavailable
1990 MWh generated: 13,357
1990 MWh purchased: 0
1990 MWh sold: 9,494
1990 revenues: $681,000
established 1975

Ouzinkie, City of
Box 109
Ouzinkie, Alaska 99644
(907) 680-2209
Katherine Panamarioff, Utility Clerk
customers: 84
nameplate capacity (kW): unavailable
1990 MWh generated: 577
1990 MWh purchased: 0
1990 MWh sold: 577
1990 revenues: $146,000

Pedro Bay Village Council Electric
Box 47020
Pedro Bay, Alaska 99647
(907) 850-2225
Debi Wilson-Jacko, Village Administrator
customers: 35
nameplate capacity (kW): unavailable
1990 MWh generated: 169
1990 MWh purchased: 0
1990 MWh sold: 105
1990 revenues: $63,000

Perryville Electric Utility
Native Village of Perryville
Box 101
Perryville, Alaska 99648
(907) 853-2203
Richard Larson, Village Administrator
customers: 32
nameplate capacity (kW): unavailable
1990 MWh generated: 308
1990 MWh purchased: 0
1990 MWh sold: 293
1990 revenues: $88,000

Petersburg, City of
11 S. Nordic Drive, Box 329
Petersburg, Alaska 99833
(907) 772-4203
Dennis Lewis, Superintendent
customers: 1,728
nameplate capacity (kW): hydro: 1,600; oil: 5,600
1990 MWh generated: 11,923
1990 MWh purchased: 19,678
1990 MWh sold: 28,476
1990 revenues: $2,771,000
established 1924

St. Paul Municipal Electric Utility
Mail Pouch #1
St. Paul, Alaska 99660
(907) 546-2331
Larry Merculieff, City Manager
customers: 258
nameplate capacity (kW): unavailable
1990 MWh generated: 5,084
1990 MWh purchased: 0
1990 MWh sold: 4,854
1990 revenues: $1,798,000
established 1983

Seward, City of
Box 167
Seward, Alaska 99664
(907) 224-3331
Everett Diener, Manager of Utilities
customers: 1,813
nameplate capacity (kW): oil: 10,500
1990 MWh generated: 10
1990 MWh purchased: 49,398
1990 MWh sold: 46,029
1990 revenues: $4,500,000
established 1955

Sitka, City & Borough of
1306 Halibut Point Rd.
Sitka, Alaska 99835
(907) 747-6633
Greg Grissom, Superintendent
customers: 4,043
nameplate capacity (kW): hydro: 24,600; oil: 8,700
1990 MWh generated: 88,772
1990 MWh purchased: 0
1990 MWh sold: retail: 83,492
wholesale: 1,304
1990 revenues: $6,343,000
established 1941

Tatitlek Electric Utility
Box 171
Tatitlek, Alaska 99677
(907) 325-2311
Sandra Selanofs, Village Administrator
customers: 49
nameplate capacity (kW): unavailable
1990 MWh generated: 174
1990 MWh purchased: 0
1990 MWh sold: 174
1990 revenues: 42,000

Tenakee Springs, City of
Box 52
Tenakee Springs, Alaska 99841
(907) 736-2207
James McBean, Electric Manager
customers: 97
nameplate capacity (kW): unavailable
1990 MWh generated: 355
1990 MWh purchased: 0
1990 MWh sold: 335
1990 revenues: $112,000

Thorne Bay, City of
Box 110
Thorne Bay, Alaska 99919
(907) 828-3380
Leonard Hope, Electric Utility Operator
customers: 281
nameplate capacity (kW): unavailable
1990 MWh generated: 1,922
1990 MWh purchased: 0
1990 MWh sold: 1,922
1990 revenues: $420,000
established 1983

Tlingit Haida Regional Electric Authority
Box 210149
Auke Bay, Alaska 99821-0149
(907) 789-3196
Robert R. Martins, Jr., General Manager
customers: 1,186
nameplate capacity (kW): unavailable
1990 MWh generated: 8,715
1990 MWh purchased: 2,495
1990 MWh sold: 10,344
1990 revenues: $3,051,000
established 1977

Unalaska, City of
Box 89
Unalaska, Alaska 99685
(907) 581-1260
Jim Taylor, Electric Administrator
customers: 475
nameplate capacity (kW): unavailable
1990 MWh generated: 24,700
1990 MWh purchased: 0
1990 MWh sold: 22,900
1990 revenues: $3,357,000
established 1961

White Mountain, City of
Box 66
White Mountain, Alaska 99784
(907) 638-3411
Luch Ashenfelter, Utilities Clerk
customers: 78
nameplate capacity (kW): unavailable
1990 MWh generated: 426
1990 MWh purchased: 0
1990 MWh sold: 426
1990 revenues: $154,000

Wrangell, City of
Box 531
Wrangell, Alaska 99929
(907) 874-2381
Frank Fields, Superintendent
customers: 1,211
nameplate capacity (kW): oil: 8,700
1990 MWh generated: 205
1990 MWh purchased: 28,061
1990 MWh sold: 26,691
1990 revenues: $2,091,000

American Samoa

American Samoa Power Authority†*
Box PPB
Pago Pago, American Samoa 96799
(684) 644-5251
Abe U. Malae, Executive Director
customers: 8,261
nameplate capacity (kW): unavailable
1990 MWh generated: 99,226
1990 MWh purchased: 0
1990 MWh sold: 86,432
1990 revenues: $12,921,000
established 1981

Arizona

Aguila Irrigation District
Box 263
Aguila, Ariz. 85320
(602) 998-1444
Henry Brubaker, President
customers: 23
1990 MWh generated: 0
1990 MWh purchased: 24,268
1990 MWh sold: 23,484
1990 revenues: $844,000
established 1984

Arizona Power Authority†*
1810 W. Adams St., Box 6708
Phoenix, Ariz. 85005
(602) 542-4263
Dave Onstad, Administrator
customers: wholesale only
1990 MWh generated: 0
1990 MWh purchased: 885,848
1990 MWh sold: wholesale: 855,275
1990 revenues: wholesale: $15,866,000
established 1944

Colorado River Indian Irrigation Project
Box 9-C, Route 1
Parker, Ariz. 85344
(602) 669-6121
Peter N. Callac Jr., Electrical Engineer
customers: 3,339
1990 MWh generated: 0
1990 MWh purchased: 77,898
1990 MWh sold: 62,371
1990 revenues: $4,229,000

---

* Member, American Public Power Association
† Member, Demonstration of Energy-Efficient Developments Program

PROJECT 2000

GUIDING PUBLIC POWER INTO THE 21ST CENTURY

The world in which utilities operate is made up of many social, economic, environmental, and technical forces that are rapidly changing. Where is the economy headed? How is the work force changing? Where is environmental protection going? Are there new directions in electric utility industry structure? These are only some of the questions that the American Public Power Association's Project 2000 special report explores.

A year in the making, the 125-page report focuses in depth on three goals critical to public power over the decade of the 1990s.

- Preservation of the competitive viability of public power systems through responsive energy services with responsible stewardship of resources.
- Promotion of an electric utility industry structure that protects and advances the interests of all consumers.
- Enhancement of public power education, communication, and political activity to help obtain these objectives.

Project 2000 is a useful resource for utility managers and governing boards in public power planning for the 21st century. One copy has been made available to every APPA utility member. Additional copies can be purchased from APPA at a cost of $20 for members and $60 for non-members. Please allow three weeks for delivery.

PROJECT 2000 Order Form

Name ______________________

Utility/Organization ______________________

Shipping Address ______________________

Billing Address ______________________

City ____________ State ____________ Zip ____________

Telephone Number ______________________

Price: Member: $20 Non-member: $60 Quantity Ordered ____________

APPA Member ____________ Payment Enclosed ____________

Non-Member ____________ Bill Us ____________

Return To: American Public Power Association 2301 M Street, N.W. Washington, D.C. 20037 (202) 467-2926

ARIZONA *(continued)*

Fredonia, Town of
Box 217
Fredonia, Ariz. 86022
(602) 643-7241
Barbara Kimball, Town Clerk
customers: unavailable
1990 MWh generated: unavailable
1990 MWh purchased: unavailable
1990 MWh sold: unavailable
1990 revenues: unavailable
established 1987

Harquahala Valley Power District
Star Route 2, Box 397
Buckeye, Ariz. 85326
(602) 372-4791
Steve Pavich, President
customers: 28
1990 MWh generated: 0
1990 MWh purchased: 7,867
1990 MWh sold: 4,573
1990 revenues: $260,000
established 1963

Maricopa County, Electrical District No. 7 of
14629 W. Peoria Ave.
Waddell, Ariz. 85355
(602) 935-6253
R. D. Justice, Vice Chairman/Manager
customers: 101
1990 MWh generated: 0
1990 MWh purchased: 55,852
1990 MWh sold: 50,331
1990 revenues: $1,761,000
established 1948

Maricopa County, Electrical District No. 8 of*
1001 N. Central Ave., #601
Phoenix, Ariz. 85004
(602) 258-8401
Douglas C. Nelson, Counsel
customers: 217
1990 MWh generated: 0
1990 MWh purchased: 94,511
1990 MWh sold: 92,368
1990 revenues: $4,070,000
established 1987

Maricopa Water District*
Box 260
Waddell, Ariz. 85355-0260
(602) 975-2151
Joe A. Falbo, General Manager
customers: 128
1990 MWh generated: 0
1990 MWh purchased: 60,453
1990 MWh sold: 36,272
1990 revenues: $1,717,000
established 1927

McMullen Valley Water Conservation & Drainage District
Box 21539
Wickenburg, Ariz. 85358
Mary Urrea
customers: 57
1990 MWh generated: 0
1990 MWh purchased: 18,500
1990 MWh sold: 17,300
1990 revenues: $764,000

Mesa, City of*
730 N. Mesa Dr., Box 1466
Mesa, Ariz. 85211-1466
(602) 644-2265
Richard R. Williams, Manager
customers: 14,421
1990 MWh generated: 0
1990 MWh purchased: 324,850
1990 MWh sold: retail: 299,306
wholesale: 5,914
1990 revenues: retail: $21,763,000
wholesale: $157,000
established 1917

Navajo Tribal Utility Authority†*
Box 170
Fort Defiance, Ariz. 86504
(602) 729-5721
Malcolm P. Dalton, General Manager
customers: 29,203
1990 MWh generated: 0
1990 MWh purchased: 541,682
1990 MWh sold: 496,037
1990 revenues: $28,986,000
established 1966

Page Electric Utility*
Box 1955
Page, Ariz. 86040
(602) 645-2419
Wm. Kent Romney, General Manager
customers: 2,925
1990 MWh generated: 0
1990 MWh purchased: 66,485
1990 MWh sold: 62,123
1990 revenues: $4,506,000
established 1985

Pinal County, Electrical District No. 2 of†*
Box 548
Coolidge, Ariz. 85228
(602) 723-7741
Thomas Martin, General Manager
customers: 2,541
1990 MWh generated: 0
1990 MWh purchased: 178,990
1990 MWh sold: 170,350
1990 revenues: $7,741,000
established 1926

Pinal County, Electrical District No. 3 of*
Box 870
Stanfield, Ariz. 85272
(602) 424-3337
O.L. "Van" Tenney, General Manager
customers: 520
1990 MWh generated: 0
1990 MWh purchased: 141,693
1990 MWh sold: 110,723
1990 revenues: $2,642,000
established 1961

Pinal County, Electrical District No. 4 of
231 S. Sunshine Blvd.
Eloy, Ariz. 85231
(602) 466-7336
James R. Sweeney, Manager
customers: 490
1990 MWh generated: 0
1990 MWh purchased: 74,021
1990 MWh sold: 66,404
1990 revenues: $2,224,000
established 1936

Pinal County, Electrical District No. 5 of
Box 1008
Red Rock, Ariz. 85245
(602) 682-3442
William Woehlecke, Secretary/Manager
customers: 355
1990 MWh generated: 0
1990 MWh purchased: 44,880
1990 MWh sold: 40,361
1990 revenues: $1,242,000
established 1949

Pinal County, Electrical District No. 6 of
4444 N. 32nd St., Suite 200
Phoenix, Ariz. 85011
(602) 956-8878
Newell Barney, Secretary-Treasurer
customers: 156
1990 MWh generated: 0
1990 MWh purchased: 79,988
1990 MWh sold: 75,351
1990 revenues: $4,912,000
established 1965

Roosevelt Irrigation District
Box 95
Buckeye, Ariz. 85326
(602) 935-4271
Stanley Ashby, Superintendent
customers: 108
1990 MWh generated: 0
1990 MWh purchased: 55,380
1990 MWh sold: 15,881
1990 revenues: $1,144,000
established 1928

Safford Municipal Utilities*
717 Main St., Box 272
Safford, Ariz. 85548
(602) 428-2762
Charles B. Pratt, Director, Electrical Services
customers: 3,287
1990 MWh generated: 0
1990 MWh purchased: 45,043
1990 MWh sold: 39,510
1990 revenues: $3,386,000
established 1937

Salt River Project†*
Box 52025
Phoenix, Ariz. 85072-2025
(602) 236-5900
C.M. Perkins, General Manager
customers: 526,641
nameplate capacity (kW): nuclear: 736,000; coal: 1,956,990; hydro: 238,200; gas: 1,392,200
1990 MWh generated: 16,931,155
1990 MWh purchased:
from utilities: 1,578,280
from nonutilities: 687
1990 MWh sold: retail: 14,679,692
wholesale: 2,846,314
1990 revenues: retail: $1,065,898,000
wholesale: $80,466,000
established 1903

Thatcher, Town of†*
1130 College Ave.
Thatcher, Ariz. 85552
(602) 428-2290
Terry Hinton, Manager
customers: 872
1990 MWh generated: 0
1990 MWh purchased: 11,395
1990 MWh sold: 9,347
1990 revenues: $748,000
established 1946

Tohono O'odham Utility Authority
(formerly Papago Tribal Utility Authority)
Box 816
Sells, Ariz. 85634
(602) 383-2236
Jerrel D. Huey, General Manager
customers: 2,716
1990 MWh generated: 0
1990 MWh purchased: 158,731
1990 MWh sold: 156,042
1990 revenues: $7,431,000
established 1974

Tonopah Irrigation District
Box 159
Tonopah, Ariz. 85354
(602) 252-9471
Charles A. Ditsch, President
customers: 19
1990 MWh generated: 0
1990 MWh purchased: 9,446
1990 MWh sold: 9,022
1990 revenues: $404,000
established 1977

Wellton-Mohawk Irrigation and Drainage District†*
30570 Wellton-Mohawk Drive
Wellton, Ariz. 85356
(602) 785-3351
Clyde L. Gould, General Manager
customers: 2,978
1990 MWh generated: 0
1990 MWh purchased: 161,175
1990 MWh sold: 48,577
1990 revenues: $3,542,000
established 1951

Wickenburg, Town of
120 E. Apache St., Box 1269
Wickenburg, Ariz. 85358
(602) 684-5451
Ben J. Nardelli, Town Manager
customers: 1,198
1990 MWh generated: 0
1990 MWh purchased: 20,067
1990 MWh sold: 17,272
1990 revenues: $1,495,000
established 1947

Arkansas

Augusta, City of
100 S. Fourth St.
Augusta, Ark. 72006
(501) 347-2041
Ronald Stracenor, Manager
customers: 1,050
nameplate capacity (kW): oil: 2,600
1990 MWh generated: 0
1990 MWh purchased: 17,344
1990 MWh sold: 15,057
1990 revenues: $1,041,000

Benton Power & Light
1314 Venturi Drive
Benton, Ark. 72015-0607
(501) 776-5940
William Barnett, Operations Superintendent
customers: 7,855
nameplate capacity (kW): oil: 8,660
1990 MWh generated: 0
1990 MWh purchased: 145,186
1990 MWh sold: 124,086
1990 revenues: $11,233,000
established 1918

Bentonville, City of
115 W. Central Ave.
Bentonville, Ark. 72712
(501) 271-3135
Wallace Allen, Electrical Superintendent
customers: 5,005
1990 MWh generated: 0
1990 MWh purchased: 182,196
1990 MWh sold: 172,847
1990 revenues: $6,916,000
established 1902

Clarksville Light & Water Co.*
Box 99
Clarksville, Ark. 72830
(501) 754-3148
Hugh W. Harrison, General Manager
customers: 2,812
1990 MWh generated: 0
1990 MWh purchased: 112,824
1990 MWh sold: 102,899
1990 revenues: $5,254,000
established 1932

Conway Corp.*
1319 Prairie St., Box 99
Conway, Ark. 72032
(501) 450-6020
William M. Hegeman, General Manager
customers: 11,949
nameplate capacity (kW): coal: 68,000
1990 MWh generated: 350,785

---

* Member, American Public Power Association
† Member, Demonstration of Energy-Efficient Developments Program

1990 MWh purchased: 60,049
1990 MWh sold: retail: 370,417
wholesale: 10,199
1990 revenues: retail: $20,133,000
wholesale: $196,000
established 1929

Hope Water & Light Commission†*
105 N. Elm St., Box 2020
Hope, Ark. 71801
(501) 777-3000
James R. Kirchhoff, General Manager
customers: 6,516
1990 MWh generated: 0
1990 MWh purchased: 165,888
1990 MWh sold: 151,279
1990 revenues: $9,486,000
established 1910

Jonesboro City Water & Light*
400 E. Monroe St., Box 1289
Jonesboro, Ark. 72403-1289
(501) 935-5581
James A. Reed, Manager
customers: 22,148
nameplate capacity (kW): coal: 170,000
1990 MWh generated: 337,172
1990 MWh purchased: 653,529
1990 MWh sold: retail: 649,183
wholesale: 297,666
1990 revenues: retail: $26,471,000
wholesale: $6,268,000
established 1906

North Little Rock, City of*
Eighth & Main Sts., Box 159
North Little Rock, Ark. 72115
(501) 372-0100
Cathern Wilkins, General Manager
customers: 35,860
nameplate capacity (kW): hydro: 42,400
1990 MWh generated: 108,257
1990 MWh purchased: 671,631
1990 MWh sold: 750,438
1990 revenues: $59,699,000
established 1903

Osceola, City of*
316 W. Hale St.
Osceola, Ark. 72370
(501) 563-5245
Jack L. Wilson, Manager
customers: 3,506
nameplate capacity (kW): coal: 8,500; oil: 8,360
1990 MWh generated: 0
1990 MWh purchased: 159,840
1990 MWh sold: 133,299
1990 revenues: $7,310,000
established 1928

Paragould Light & Water Commission*
303 W. Court St., Box 9
Paragould, Ark. 72451
(501) 239-7700
Larry Watson, Manager
customers: 11,015
nameplate capacity (kW): oil: 4,500
1990 MWh generated: 722
1990 MWh purchased: 302,724
1990 MWh sold: 291,367
1990 revenues: $9,740,000
established 1938

Paris, City of
100 N. Express, Box 271
Paris, Ark. 72855
(501) 963-2450
James O'Bar, Manager
customers: 1,810
1990 MWh generated: 0
1990 MWh purchased: 47,000
1990 MWh sold: 36,000
1990 revenues: $1,980,000

Piggott Municipal Light, Water & Sewer*
411 N. Thornton
Piggott, Ark. 72454
(501) 598-2997
Teddy F. Bellers, Administrator
customers: 2,287
nameplate capacity (kW): oil: 7,498
1990 MWh generated: 86
1990 MWh purchased: 40,038
1990 MWh sold: 37,495
1990 revenues: $1,744,000
established 1923

Prescott, City of
118 W. Elm St.
Prescott, Ark. 71857
(501) 887-2210
Larry Stockton, General Manager
customers: 1,732
1990 MWh generated: 0
1990 MWh purchased: 36,977
1990 MWh sold: 30,563
1990 revenues: $2,530,000
established 1899

Siloam Springs, City of†*
410 N. Broadway St., Box 80
Siloam Springs, Ark. 72761
(501) 524-5136
Stuart P. Thomas, Director of Public Works
customers: 4,163
1990 MWh generated: 0
1990 MWh purchased: 159,765
1990 MWh sold: 151,190
1990 revenues: $8,594,000
established 1931

West Memphis, City of
604 E. Cooper St.
West Memphis, Ark. 72301
(501) 735-3355
William H. Johnson, Manager
customers: 11,363
nameplate capacity (kW): coal: 34,000
1990 MWh generated: 175,393
1990 MWh purchased: 135,659
1990 MWh sold: 279,013
1990 revenues: $17,254,000

California

Alameda, City of†*
Drawer H
Alameda, Calif. 94501
(510) 748-3901
William C. Lewis, General Manager
customers: 31,325
1990 MWh generated: 0
1990 MWh purchased: 487,603
1990 MWh sold: 466,498
1990 revenues: $41,374,000
established 1887

Anaheim, City of†*
200 S. Anaheim Blvd., Box 3222
Anaheim, Calif. 92803
(714) 254-5100
Edward K. Aghjayan, General Manager
customers: 101,190
nameplate capacity (kW): nuclear: 71,230
1990 MWh generated: 468,642
1990 MWh purchased:
from utilities: 2,531,101
from nonutilities: 175
1990 MWh sold: retail: 2,266,993
wholesale: 615,966
1990 revenues: retail: $196,505,000
wholesale: $9,312,000
established 1894

Azusa, City of*
Box 9500
Azusa, Calif. 91702
(818) 334-0215
Joseph F. Hsu, Director of Utilities
customers: 13,718
1990 MWh generated: 0
1990 MWh purchased: 205,970
1990 MWh sold: 193,535
1990 revenues: $17,315,000
established 1898

Banning, City of*
176 E. Lincoln, Box 998
Banning, Calif. 92220
(714) 922-1245
Terry Collins, Public Utilities Director
customers: 8,100
nameplate capacity (kW): unavailable
1990 MWh generated: 897
1990 MWh purchased: 99,961
1990 MWh sold: 94,806
1990 revenues: $9,088,000
established 1923

Biggs, City of
464 B St.
Biggs, Calif. 95917
(916) 868-5493
John Najera, Director of Public Works
customers: 618
1990 MWh generated: 0
1990 MWh purchased: 7,928
1990 MWh sold: 7,827
1990 revenues: $691,000

Burbank Public Service Department†*
164 W. Magnolia Blvd., Box 631
Burbank, Calif. 91503
(818) 953-9640
Ronald V. Stassi, General Manager
customers: 49,361
nameplate capacity (kW): gas: 252,664; other: 10,000
1990 MWh generated: 187,274
1990 MWh purchased:
from utilities: 912,636
from nonutilities: 4,135
1990 MWh sold: retail: 1,036,836
wholesale: 1,284
1990 revenues: retail: $88,266,000
wholesale: $37,000
established 1913

California Department of Water Resources*
Box 942836
Sacramento, Calif. 94236-0001
(916) 445-6582
David N. Kennedy, Director
customers: wholesale only
nameplate capacity (kW): coal: 183,060; hydro: 1,206,540; other: 55,000
1990 MWh generated: 5,393,831
1990 MWh purchased:
from utilities: 2,423,149
from nonutilities: 83,521
1990 MWh sold: wholesale: 1,362,856
1990 revenues: wholesale: $45,833,000
established 1956

Colton, City of†*
650 N. La Cadena Drive
Colton, Calif. 92324
(714) 370-5104
Gale Drews, Electric Utility Director
customers: 14,993
nameplate capacity (kW): unavailable
1990 MWh generated: 11,970
1990 MWh purchased: 209,807
1990 MWh sold: 197,671
1990 revenues: $16,935,000
established 1895

East Bay Municipal Utility District*
375 11th St., Box 24055
Oakland, Calif. 94623-1055
(415) 835-3000
Jorge Carrasco, General Manager
customers: wholesale only
nameplate capacity (kW): hydro: 34,400
1990 MWh generated: 36,350
1990 MWh purchased: 0
1990 MWh sold: wholesale: 36,350
1990 revenues: wholesale: $900,000
established 1923

Escondido, City of
Civic Center Plaza, 201 N. Broadway
Escondido, Calif. 92025
(619) 741-4657
Lola M. Rollins, Administrative Assistant
customers: 1
nameplate capacity (kW): hydro: 1,806
1990 MWh generated: 3,687
1990 MWh purchased: 0
1990 MWh sold: retail: 377
wholesale: 3,310
1990 revenues: retail: $5,000
wholesale: $207,000

Glendale, City of*
119 N. Glendale Ave.
Glendale, Calif. 91206
(818) 548-2107
Michael P. Hopkins, Director, Public Service
customers: 81,039
nameplate capacity (kW): gas: 198,500; oil: 44,000; other: 40,000
1990 MWh generated: 184,627
1990 MWh purchased: 951,631
1990 MWh sold: 978,034
1990 revenues: $81,166,000
established 1909

Gridley, City of
685 Kentucky St.
Gridley, Calif. 95948
(916) 846-5695
Evelene D. Payne, City Administrator
customers: 2,130
1990 MWh generated: 0
1990 MWh purchased: 27,500
1990 MWh sold: 27,000
1990 revenues: $1,926,000
established 1910

Hayfork Valley Public Utility District*
Highway 3, Box 356
Hayfork, Calif. 96041
(916) 628-4454
Melissa Rall, Office Manager
customers: 568
1990 MWh generated: 0
1990 MWh purchased: 6,634
1990 MWh sold: 6,195
1990 revenues: $518,000
established 1988

Healdsburg, City of*
Box 578
Healdsburg, Calif. 95448
(703) 431-3346
William Duarte, Electric Utility Director
customers: 4,536
1990 MWh generated: 0
1990 MWh purchased: 68,138
1990 MWh sold: 60,100
1990 revenues: $5,792,000
established 1900

Imperial Irrigation District*
333 E. Barioni Blvd., Box 937
Imperial, Calif. 92251
(619) 339-9477
Charles Shreves, General Manager
customers: 73,201
nameplate capacity (kW): hydro: 85,645; gas: 335,550; oil: 60,726
1990 MWh generated: 772,246
1990 MWh purchased: 1,364,201
1990 MWh sold: retail: 1,901,965
wholesale: 2,125
1990 revenues: retail: $132,218,000
wholesale: $[illegible]0,000

CALIFORNIA *(continued)*

established 1936

Kings River Conservation District*
4886 E. Jensen Ave.
Fresno, Calif. 93725
(209) 237-5567
Jeff L. Taylor, General Manager
customers: wholesale only
nameplate capacity (kW): hydro: 165,000
1990 MWh generated: 69,916
1990 MWh purchased: 0
1990 MWh sold: wholesale: 69,916
1990 revenues: wholesale: $531,000
established 1951

Lassen Municipal Utility District*
Box 361
Susanville, Calif. 96130
(916) 257-4174
Don Battles, General Manager
customers: 9,023
1990 MWh generated: 0
1990 MWh purchased: 134,575
1990 MWh sold: 115,330
1990 revenues: $13,172,000
established 1988

Lodi, City of*
221 W. Pine St., Box 3006
Lodi, Calif. 95241-1910
(209) 333-6762
Henry J. Rice, Electric Utility Director
customers: 21,806
1990 MWh generated: 0
1990 MWh purchased: 369,559
1990 MWh sold: retail: 342,293
wholesale: 11,784
1990 revenues: retail: $27,126,000
wholesale: $414,000
established 1910

Lompoc, City of*
100 Civic Center Plaza
Lompoc, Calif. 93438
(805) 736-1261
Gene L. Wahlers, City Administrator
customers: 13,184
1990 MWh generated: 0
1990 MWh purchased: 115,982
1990 MWh sold: 105,486
1990 revenues: $9,341,000
established 1923

Los Angeles Department of Water & Power†*
Room 1550, Box 111
Los Angeles, Calif. 90051
(213) 481-4211
Daniel W. Waters, General Manager
customers: 1,306,940
nameplate capacity (kW): nuclear: 240,000; coal: 615,090; hydro: 1,588,215; gas: 3,328,020
1990 MWh generated: 12,299,526
1990 MWh purchased: 13,630,077
1990 MWh sold: retail: 21,742,536
wholesale: 339,272
1990 revenues: retail: $1,844,269,000
wholesale: $8,645,000
established 1925

Merced Irrigation District
2423 Canal St., Box 2288
Merced, Calif. 95344
(209) 722-5761
customers: wholesale only
nameplate capacity (kW): hydro: 93,600
1990 MWh generated: 97,529
1990 MWh purchased: 0
1990 MWh sold: wholesale: 96,998
1990 revenues: wholesale: $3,768,000
established 1919

Metropolitan Water District of Southern California
1111 Sunset Blvd.
Los Angeles, Calif. 90012
(213) 250-6068
Carl Bronkay, General Manager
customers: wholesale only
nameplate capacity (kW): hydro: 77,280
1990 MWh generated: 2,043,663
1990 MWh purchased: 771,726
1990 MWh sold: wholesale: 413,275
1990 revenues: wholesale: $19,555,000

Modesto Irrigation District*
1231 11th St., Box 4060
Modesto, Calif. 95352
(209) 526-7383
Joseph B. Marcotte Jr., Chief Executive Officer
customers: 85,525
nameplate capacity (kW): hydro: 57,470; oil: 142,400; other: 52,000
1990 MWh generated: 97,114
1990 MWh purchased: 1,714,945
1990 MWh sold: 1,712,212
1990 revenues: $109,271,000
established 1923
(see expanded joint action agency section, page 138)

M-S-R Public Power Agency
Box 4060
Modesto, Calif. 95352
(209) 526-7373
Kenneth H. McKinney, General Manager
customers: wholesale only
nameplate capacity (kW): unavailable
1990 MWh generated: 782,617
1990 MWh purchased: 44,905
1990 MWh sold: wholesale: 827,522
1990 revenues: wholesale: $51,424,000
established 1980
(see expanded joint action agency section, page 140)

Needles, City of
1111 Bailey Ave. (City Hall), Box 887
Needles, Calif. 92363
(619) 326-2113
Leon H. Berger, City Manager
customers: 2,798
1990 MWh generated: 0
1990 MWh purchased: 58,230
1990 MWh sold: 53,601
1990 revenues: $4,400,000
established 1983

Northern California Power Agency*
180 Cirby Way
Roseville, Calif. 95678
(916) 781-3636
Michael McDonald, General Manager
customers: wholesale only
nameplate capacity (kW): unavailable
1990 MWh generated: 1,478,268
1990 MWh purchased: 230,094
1990 MWh sold: wholesale: 1,661,735
1990 revenues: wholesale: $133,057,000
established 1968
(see expanded joint action agency section, page 140)

Oroville-Wyandotte Irrigation District
2310 Quincy Road, Box 581
Oroville, Calif. 95965
(916) 534-1221
Steven C. Onken, Power Superintendent
customers: wholesale only
nameplate capacity (kW): hydro: 103,100
1990 MWh generated: 387,554
1990 MWh purchased: 0
1990 MWh sold: wholesale: 387,554
1990 revenues: wholesale: $8,094,000
established 1963

Palo Alto, City of†*
250 Hamilton Ave.
Palo Alto, Calif. 94301
(415) 329-2273
Richard L. Young, Director of Utilities
customers: 24,412
1990 MWh generated: 0
1990 MWh purchased: 1,075,876
1990 MWh sold: 1,051,705
1990 revenues: $59,552,000
established 1900

Pasadena Water & Power and Power Department†*
150 S. Los Robles, Suite 200
Pasadena, Calif. 91101
(818) 405-4409
David C. Plumb, General Manager
customers: 56,468
nameplate capacity (kW): hydro: 3,000; oil: 254,000
1990 MWh generated: 322,192
1990 MWh purchased:
from utilities: 991,586
from nonutilities: 812
1990 MWh sold: retail: 1,072,932
wholesale: 164,654
1990 revenues: retail: $92,263,000
wholesale: $8,810,000
established 1906

Placer County Water Agency
24625 Harrison St., Box 667
Foresthill, Calif. 95631
(916) 367-2291
Stephen J. Jones, Power Systems Manager
customers: wholesale only
nameplate capacity (kW): hydro: 211,595
1990 MWh generated: 631,350
1990 MWh purchased: 0
1990 MWh sold: wholesale: 628,080
1990 revenues: wholesale: $7,305,000
established 1957

Redding, City of*
760 Parkview Ave.
Redding, Calif. 96001
(916) 224-4300
Sam Lindley, Director, Electric Department
customers: 32,293
nameplate capacity (kW): hydro: 3,240
1990 MWh generated: 0
1990 MWh purchased: 647,699
1990 MWh sold: 607,292
1990 revenues: $38,507,000
established 1921

Riverside, City of†*
3900 Main St.
Riverside, Calif. 92522
(714) 782-5781
Bill D. Carnahan, Public Utilities Director
customers: 87,871
nameplate capacity (kW): nuclear: 40,350
1990 MWh generated: 260,367
1990 MWh purchased:
from utilities: 1,320,223
from nonutilities: 186,174
1990 MWh sold: retail: 1,491,251
wholesale: 186,174
1990 revenues: retail: $135,718,000
wholesale: $2,722,000
established 1895

Roseville Electric Department*
2090 Hilltop Circle
Roseville, Calif. 95678
(916) 781-0600
Kenneth A. Weisel, Electric Utility Director
customers: 21,619
1990 MWh generated: 0
1990 MWh purchased: 425,920
1990 MWh sold: 398,889
1990 revenues: $28,240,000
established 1912

Sacramento Municipal Utility District*
6201 S St., Box 15830
Sacramento, Calif. 95817
(916) 452-3211
S. David Freeman, General Manager
customers: 449,229
nameplate capacity (kW): hydro: 613,882; oil: 74,200; other: 145,000
1990 MWh generated: 1,680,953
1990 MWh purchased: 7,141,595
1990 MWh sold: 8,264,599
1990 revenues: retail: $648,476,000
wholesale: $321,000
established 1947

San Francisco, City of*
1155 Market St.
San Francisco, Calif. 94103
(415) 550-6500
Anson B. Moran, General Manager
customers: 16
nameplate capacity (kW): hydro: 353,022
1990 MWh generated: 1,500,544
1990 MWh purchased: 210,101
1990 MWh sold: retail: 554,506
wholesale: 1,050,831
1990 revenues: retail: $27,837,000
wholesale: $30,631,000

Santa Clara, City of†*
1500 Warburton Ave.
Santa Clara, Calif. 95050
(408) 984-5190
E. Paul Wilson, Director of Electric Utility
customers: 44,523
nameplate capacity (kW): hydro: 11,720; gas: 70,620; other: 13,000
1990 MWh generated: 51,597
1990 MWh purchased: 2,386,123
1990 MWh sold: 2,275,427
1990 revenues: $142,731,000
established 1896

Shasta Dam Area Public Utility District*
1650 Stanton Drive
Central Valley, Calif. 96019
(916) 275-8827
Ron Young, General Manager
customers: 3,688
1990 MWh generated: 0
1990 MWh purchased: 63,239
1990 MWh sold: 57,678
1990 revenues: $3,644,000
established 1945

Southern California Public Power Authority*
200 S. Los Robles, Suite 155
Pasadena, Calif. 91101
(818) 793-9364
Linda M. Lazzerino, Executive Director
customers: wholesale only
nameplate capacity (kW): nuclear: 249,000
1990 MWh generated: 517,294
1990 MWh purchased: 8,539
1990 MWh sold: wholesale: 517,294
1990 revenues: wholesale: $120,782,000
established 1980
(see expanded joint action agency section, page 140)

---

* Member, American Public Power Association
† Member, Demonstration of Energy-Efficient Developments Program

Tri-Dam Power Authority*
Box 1158
Pinecrest, Calif. 95364
(209) 965-3996
D. B. Thompson, General Manager
customers: wholesale only
nameplate capacity (kW): hydro: 16,200
1990 MWh generated: 356,914
1990 MWh purchased: 0
1990 MWh sold: wholesale: 355,205
1990 revenues: wholesale: $10,053,000
established 1982
(*Note: includes data for Oakdale and South San Joaquin. See expanded joint action agency section, page 140.*)

Trinity County Public Utilities District†*
Box 1216
Weaverville, Calif. 96093
(916) 623-5536
Werner Buehler, General Manager
customers: 2,109
1990 MWh generated: 0
1990 MWh purchased: 36,370
1990 MWh sold: 33,966
1990 revenues: $2,168,000
established 1982

Truckee-Donner Public Utility District*
Box 309
Truckee, Calif. 96160
(916) 587-3896
Peter L. Holzmeister, General Manager
customers: 6,785
1990 MWh generated: 0
1990 MWh purchased: 93,300
1990 MWh sold: 91,000
1990 revenues: $7,797,000
established 1927

Tuolumne County Public Power Agency
Two S. Green St.
Sonora, Calif. 95370
(209) 533-5518
Tommy "TK" Keller, Agency Coordinator
customers: 300
1990 MWh generated: 0
1990 MWh purchased: 18,594
1990 MWh sold: 17,794
1990 revenues: $1,029,000
established 1983

Turlock Irrigation District†*
333 E. Canal Drive, Box 949
Turlock, Calif. 95381
(209) 883-8300
Ernest Geddes, General Manager
customers: 58,071
nameplate capacity (kW): hydro: 134,024; gas: 49,900
1990 MWh generated: 244,577
1990 MWh purchased: 1,012,789
1990 MWh sold: 1,158,257
1990 revenues: $70,398,000
established 1887

Ukiah, City of*
300 Seminary Ave.
Ukiah, Calif. 95482
(707) 463-6281
Darryl Barnes, Director of Electric Utility
customers: 7,086
nameplate capacity (kW): unavailable
1990 MWh generated: 47,150
1990 MWh purchased: 49,092
1990 MWh sold: 92,216
1990 revenues: $9,339,000
established 1897

Vernon, City of†*
4305 Santa Fe Ave.
Vernon, Calif. 90058
(213) 583-8811
Kenneth J. DeDario, Director of Light & Power
customers: 2,352
nameplate capacity (kW): unavailable
1990 MWh generated: 14,954
1990 MWh purchased: 1,068,576
1990 MWh sold: 1,047,774
1990 revenues: $68,694,000
established 1933

Yuba County Water Agency
1402 D St., Box 1569
Marysville, Calif. 95901
(916) 741-6278
Donn Wilson, Engineer-Administrator
customers: wholesale only
nameplate capacity (kW): hydro: 370,650
1990 MWh generated: 810,996
1990 MWh purchased: 0
1990 MWh sold: wholesale: 807,639
1990 revenues: wholesale: $11,266,000
established 1966

Colorado

Arkansas River Power Authority*
3409 S. Main St., Box 70
Lamar, Colo. 81052
(719) 336-3496
James M. Henderson, General Manager
customers: wholesale only
1990 MWh generated: 0
1990 MWh purchased: 268,458
1990 MWh sold: wholesale: 262,114
1990 revenues: wholesale: $8,770,000
established 1973
(*see expanded joint action agency section, page 140*)

Aspen, City of†*
130 S. Galena St.
Aspen, Colo. 81611
(303) 920-5083
Robert Gish, Public Service Director
customers: 2,342
nameplate capacity (kW): unavailable
1990 MWh generated: 15,720
1990 MWh purchased: 45,240
1990 MWh sold: 56,189
1990 revenues: $3,948,000
established 1896

Burlington, City of†*
480 15th St.
Burlington, Colo. 80807
(719) 346-8585
Merle Worden, City Administrator
customers: 1,659
nameplate capacity (kW): oil: 7,550
1990 MWh generated: 0
1990 MWh purchased: 23,869
1990 MWh sold: 20,763
1990 revenues: $1,811,000
established 1920

Center, City of†*
400 S. Worth, Box 400
Center, Colo. 81125
(719) 754-3497
Darrell T. Davis, Superintendent of Utilities
customers: 940
nameplate capacity (kW): oil: 1,500
1990 MWh generated: 6,699
1990 MWh purchased: 5,145
1990 MWh sold: 9,695
1990 revenues: $505,000
established 1941

Colorado Springs Utilities*
30 S. Nevada Ave., Box 1103
Colorado Springs, Colo. 80947-0001
(719) 636-5300
S. H. Christensen, Director, Electric Generation Dept.
customers: 144,398
nameplate capacity (kW): coal: 464,000; hydro: 6,000; gas: 87,550
1990 MWh generated: 2,693,746
1990 MWh purchased: 408,635
1990 MWh sold: retail: 2,810,892
wholesale: 104,970
1990 revenues: retail: $133,629,000
wholesale: $4,679,000
established 1925

Delta, City of†*
1133 Main St., Box 19
Delta, Colo. 81416
(303) 874-8400
W. F. Mathews, Utilities Director
customers: 1,887
nameplate capacity (kW): gas: 4,535; oil: 422
1990 MWh generated: 469
1990 MWh purchased: 31,649
1990 MWh sold: 30,035
1990 revenues: $2,258,000
established 1937

Denver, City & County of
1600 W. 12th Ave.
Denver, Colo. 80204
(303) 628-6550
Ted R. Fondy, Water Resource Engineer
customers: wholesale only
nameplate capacity (kW): hydro: 14,457
1990 MWh generated: 41,107
1990 MWh purchased: 7,060
1990 MWh sold: wholesale: 33,997
1990 revenues: wholesale: $1,523,000

Estes Park, Town of†*
Box 1200
Estes Park, Colo. 80517
(303) 586-5331
Richard E. Matzke, Director
customers: 6,798
1990 MWh generated: 0
1990 MWh purchased: 80,913
1990 MWh sold: 78,090
1990 revenues: $5,145,000
established 1945

Fleming, City of†*
Box 466
Fleming, Colo. 80728
(303) 265-2692
Rick Rigel, Town Superintendent
customers: 225
1990 MWh generated: 0
1990 MWh purchased: 2,220
1990 MWh sold: 1,630
1990 revenues: $110,000

Fort Collins Light & Power Utility†*
700 Wood St., Box 580
Fort Collins, Colo. 80522
(303) 221-6700
Robert A. Kost, Light and Power Director
customers: 36,620
1990 MWh generated: 0
1990 MWh purchased: 809,215
1990 MWh sold: 781,287
1990 revenues: $38,076,000
established 1935

Fort Morgan, City of*
710 E. Railroad Ave.
Fort Morgan, Colo. 80701
(303) 867-3001
Glenn W. Calvert, City Superintendent
customers: 5,259
1990 MWh generated: 0
1990 MWh purchased: 116,009
1990 MWh sold: 96,758
1990 revenues: $3,614,000
established 1906

Fountain, City of
116 S. Main St.
Fountain, Colo. 80817
(719) 382-5604
Richard Heikes, Superintendent
customers: 16,908
1990 MWh generated: 0
1990 MWh purchased: 104,970
1990 MWh sold: 96,790
1990 revenues: $6,124,000

Frederick, Town of*
Box 435
Frederick, Colo. 80530
(303) 833-2388
Edward Tagliente, Mayor
customers: 398
1990 MWh generated: 0
1990 MWh purchased: 4,937
1990 MWh sold: 3,959
1990 revenues: $283,000

Glenwood Springs, City of*
806 Cooper Ave.
Glenwood Springs, Colo. 81601
(303) 945-2575
Robin Millyard, Public Works Director
customers: 4,462
1990 MWh generated: 0
1990 MWh purchased: 76,000
1990 MWh sold: 72,300
1990 revenues: $5,049,000
established 1953

Granada, Town of
109 E. Goff St., Box 258
Granada, Colo. 81041
(719) 734-5411
Claudia J. Bezona, Clerk
customers: 238
1990 MWh generated: 0
1990 MWh purchased: 2,646
1990 MWh sold: 2,348
1990 revenues: $171,000

Gunnison, City of*
201 W. Virginia Ave.
Gunnison, Colo. 81230
(303) 641-2446
Bill Earley, Utilities Director
customers: 2,963
1990 MWh generated: 0
1990 MWh purchased: 49,053
1990 MWh sold: 45,400
1990 revenues: $2,207,000
established 1907

Haxtun, Town of†*
145 S. Colorado Ave., Box 205
Haxtun, Colo. 80731
(303) 774-6104
George E. Michael, Superintendent
customers: 580
nameplate capacity (kW): oil: 620
1990 MWh generated: 0
1990 MWh purchased: 7,000
1990 MWh sold: 5,000
1990 revenues: $294,000
established 1909

Holly, City of
Box 458
Holly, Colo. 81047
(719) 537-6622
Grant McCormick, Town Manager
customers: 663
nameplate capacity (kW): gas: 500; oil: 330
1990 MWh generated: 0
1990 MWh purchased: 7,000
1990 MWh sold: 6,000
1990 revenues: $424,000
established 1949

Holyoke, City of*
207 W. Denver St.
Holyoke, Colo. 80734
(303) 854-2266
Allen Coyne, City Superintendent

COLORADO *(continued)*

customers: 1,118
nameplate capacity (kW): oil: 965
1990 MWh generated: 0
1990 MWh purchased: 19,349
1990 MWh sold: 16,910
1990 revenues: $615,000

Julesburg, City of*
122 W. First St.
Julesburg, Colo. 80737
(303) 474-3344
Victor E. Johnson, Superintendent of Public Works
customers: 790
nameplate capacity (kW): oil: 3,700
1990 MWh generated: 0
1990 MWh purchased: 9,368
1990 MWh sold: 8,086
1990 revenues: $665,000

La Junta, City of*
601 Colorado Ave., Box 630
La Junta, Colo. 81050
(719) 384-8454
Robert H. Smith, Electric Utility Director
customers: 3,475
nameplate capacity (kW): gas: 17,439; oil: 1,810
1990 MWh generated: -1,675
1990 MWh purchased: 52,789
1990 MWh sold: 51,077
1990 revenues: $4,059,000
established 1939

Lamar Utilities Board†*
100 N. Second St.
Lamar, Colo. 81052
(719) 336-7456
Leon Sparks, Superintendent
customers: 5,395
nameplate capacity (kW): gas: 33,000; oil: 2,000
1990 MWh generated: 80,702
1990 MWh purchased: 8,806
1990 MWh sold: retail: 80,756
wholesale: 2,518
1990 revenues: retail: $5,669,000
wholesale: $135,000
established 1919

Las Animas, City of*
532 Carson Ave.
Las Animas, Colo. 81054
(719) 456-1621
W. A. Hudnall, Superintendent
customers: 1,908
nameplate capacity (kW): gas: 5,000; oil: 600
1990 MWh generated: 0
1990 MWh purchased: 23,387
1990 MWh sold: 21,681
1990 revenues: $1,354,000
established 1941

Longmont, City of*
1100 S. Sherman St.
Longmont, Colo. 80501
(303) 651-8386
Jeffrey A. Gould, Electric Director
customers: 22,994
nameplate capacity (kW): hydro: 600
1990 MWh generated: 1,983
1990 MWh purchased: 388,798
1990 MWh sold: 368,302
1990 revenues: $18,925,000
established 1911

Loveland Light and Power*
200 N. Wilson
Loveland, Colo. 80537
(303) 669-2470
Brian H. Moeck, Director of Light and Power
customers: 17,333
nameplate capacity (kW): unavailable
1990 MWh generated: 3,028
1990 MWh purchased: 364,417
1990 MWh sold: 356,452
1990 revenues: $18,694,000
established 1925

Lyons, Town of†*
Box 49
Lyons, Colo. 80540
(303) 823-6622
Herb McConnell, Public Works Director
customers: 576
1990 MWh generated: 0
1990 MWh purchased: 6,466
1990 MWh sold: 5,423
1990 revenues: $400,000

Oak Creek, Town of*
Box 128
Oak Creek, Colo. 80467
(303) 736-8231
Nancy Crawford, Town Clerk
customers: 428
1990 MWh generated: 0
1990 MWh purchased: 4,126
1990 MWh sold: 3,506
1990 revenues: $309,000
established 1930

Platte River Power Authority†*
2000 E. Horsetooth Road
Fort Collins, Colo. 80525-2942
(303) 226-4000
Thaine J. Michie, General Manager
customers: wholesale only
nameplate capacity (kW): coal: 415,717
1990 MWh generated: 2,958,604
1990 MWh purchased: 747,892
1990 MWh sold: wholesale: 3,636,139
1990 revenues: wholesale: $142,630,000
established 1973
(see expanded joint action agency section, page 140)

Springfield, City of†*
Box 4
Springfield, Colo. 81073
(719) 523-4528
Darwin Hansen, Electrical Superintendent
customers: 938
nameplate capacity (kW): oil: 2,842
1990 MWh generated: 0
1990 MWh purchased: 10,323
1990 MWh sold: 9,715
1990 revenues: $597,000
established 1947

Trinidad, City of†*
Box 880
Trinidad, Colo. 81082
(719) 846-9843
David Brunelli, Superintendent
customers: 4,585
nameplate capacity (kW): coal: 3,750; gas: 7,550
1990 MWh generated: 5,135
1990 MWh purchased: 36,055
1990 MWh sold: 36,049
1990 revenues: $2,774,000
established 1948

Wray, City of†*
245 W. Fourth St., Box 35
Wray, Colo. 80758
(303) 332-4431
Robert W. Snedeker, City Manager
customers: 1,172
1990 MWh generated: 0
1990 MWh purchased: 16,121
1990 MWh sold: 14,425
1990 revenues: $1,000,000
established 1903

Yuma, City of†*
221 S. Main St., Box 265
Yuma, Colo. 80759
(303) 848-3878
Doug Lasater, City Manager
customers: 1,435
nameplate capacity (kW): oil: 1,199
1990 MWh generated: 0
1990 MWh purchased: 18,705
1990 MWh sold: 16,171
1990 revenues: $973,000
established 1928

Connecticut

Connecticut Municipal Electric Energy Cooperative†*
30 Stott Ave.
Norwich, Conn. 06360-1535
(203) 889-4088
Maurice R. Scully, Executive Director
customers: wholesale only
nameplate capacity (kW): unavailable
1990 MWh generated: 89,718
1990 MWh purchased: 720,724
1990 MWh sold: wholesale: 1,071,166
1990 revenues: wholesale: $57,461,000
established 1976
(see expanded joint action agency section, page 140)

Groton Department of Utilities†*
295 Meridian St., Box 820
Groton, Conn. 06340
(203) 446-4000
Alexander B. Chisholm, Director of Utilities
customers: 12,541
1990 MWh generated: 0
1990 MWh purchased: 645,050
1990 MWh sold: retail: 626,523
wholesale: 5,194
1990 revenues: retail: $43,415,000
wholesale: $346,000
established 1904

Jewett City Electric Light Plant†*
9 E. Main St.
Jewett City, Conn. 06351
(203) 376-2955
Joseph M. Dudek, Superintendent
customers: 1,953
1990 MWh generated: 0
1990 MWh purchased: 19,700
1990 MWh sold: 18,249
1990 revenues: $1,684,000
established 1897

Norwalk, City of, Third Taxing District†*
2 Second St., Box 451
East Norwalk, Conn. 06855
(203) 866-9271
Donald H. Radley, General Manager
customers: 3,481
1990 MWh generated: 0
1990 MWh purchased: 58,990
1990 MWh sold: 54,299
1990 revenues: $5,542,000
established 1913

Norwich, City of†*
34 Courthouse Square
Norwich, Conn. 06360
(203) 887-2555
Richard E. Des Roches, General Manager
customers: 18,051
nameplate capacity (kW): hydro: 3,000; oil: 16,800
1990 MWh generated: 14,631
1990 MWh purchased: 271,933
1990 MWh sold: 272,197
1990 revenues: $25,027,000
established 1904

South Norwalk Electric Works†*
State St., Box 400
Norwalk, Conn. 06856
(203) 866-3366
Larry Rossi, General Manager
customers: 5,674
nameplate capacity (kW): oil: 15,300
1990 MWh generated: 413
1990 MWh purchased: 75,472
1990 MWh sold: retail: 68,259
wholesale: 839
1990 revenues: retail: $7,021,000
wholesale: $695,000
established 1892

Wallingford, Town of†*
100 John St.
Wallingford, Conn. 06492
(203) 265-1593
Raymond F. Smith, Director of Utilities
customers: 20,902
nameplate capacity (kW): oil: 22,500
1990 MWh generated: 446
1990 MWh purchased: 534,509
1990 MWh sold: 519,778
1990 revenues: $40,547,000
established 1899

Delaware

Clayton, Town of
314 Main St.
Clayton, Del. 19938
(302) 653-8419
James H. Carson Jr., Council President
customers: 608
1990 MWh generated: 0
1990 MWh purchased: 5,850
1990 MWh sold: 5,125
1990 revenues: $501,000

Dover, City of†*
860 Buttner Place
Dover, Del. 19901
(302) 736-7070
John E. French, Electric Director
customers: 17,232
nameplate capacity (kW): oil: 151,200
1990 MWh generated: 317,071
1990 MWh purchased:
from nonutilities: 52,165
1990 MWh sold: retail: 473,296
wholesale: 12,115
1990 revenues: retail: $32,506,000
wholesale: $355,000
established 1902

Lewes Board of Public Works
E. Third St., Box 518
Lewes, Del. 19958
(302) 645-6228
Ronald Donovan, General Manager
customers: 2,724
nameplate capacity (kW): oil: 1,100
1990 MWh generated: 105
1990 MWh purchased: 51,960
1990 MWh sold: 44,824
1990 revenues: $3,279,000
established 1901

Middletown, Town of
216 N. Broad St.
Middletown, Del. 19709
(302) 378-2711
Joe Enrico, Town Superintendent
customers: 1,754
1990 MWh generated: 0
1990 MWh purchased: 25,198
1990 MWh sold: 22,070
1990 revenues: $2,040,000

Milford, City of
201 S. Walnut St., Box 159
Milford, Del. 19963

---

* Member, American Public Power Association
† Member, Demonstration of Energy-Efficient Developments Program

(302) 422-6616
Michael T. Booker, City Manager
customers: 4,494
1990 MWh generated: 0
1990 MWh purchased: 129,673
1990 MWh sold: 123,606
1990 revenues: $8,784,000
established 1918

New Castle Board of Water & Light Commissioners*
216 Chestnut St., Box 208
New Castle, Del. 19720
(302) 323-2330
Edward J. Murphy, Board Secretary
customers: 2,035
1990 MWh generated: 0
1990 MWh purchased: 22,474
1990 MWh sold: 20,517
1990 revenues: $1,935,000
established 1921

Newark, City of*
220 Elkton Road, Box 390
Newark, Del. 19715-0390
(302) 366-7080
Carl F. Luft, City Manager
customers: 8,829
1990 MWh generated: 0
1990 MWh purchased: 268,869
1990 MWh sold: 249,648
1990 revenues: $17,490,000
established 1913

Seaford, City of
302 E. King St.
Seaford, Del. 19973
(302) 629-9173
Dolores J. Slatcher, City Manager
customers: 3,070
nameplate capacity (kW): oil: 7,800
1990 MWh generated: 1,890
1990 MWh purchased: 77,978
1990 MWh sold: 71,591
1990 revenues: $6,197,000

Smyrna, Town of*
27 S. Market St., Box 307
Smyrna, Del. 19977
(302) 653-3483
C. Donald Hodge, Town Manager
customers: 2,310
1990 MWh generated: 0
1990 MWh purchased: 43,819
1990 MWh sold: 41,086
1990 revenues: $3,610,000
established 1893

Florida

Alachua, City of*
US 441 & SR 235, Box 9
Alachua, Fla. 32615
(904) 462-1231
Francine Jernigan, Finance Director
customers: 1,980
1990 MWh generated: 0
1990 MWh purchased: 45,600
1990 MWh sold: 42,130
1990 revenues: $3,471,000
established 1924

Bartow, City of
450 N. Wilson Ave, Box 1069
Bartow, Fla. 33830
(813) 533-0911
James R. O'Connor, City Manager
customers: 9,414
1990 MWh generated: 0
1990 MWh purchased: 243,257
1990 MWh sold: 223,411
1990 revenues: $17,571,000
established 1903

Blountstown, City of
125 W. Central Ave.
Blountstown, Fla. 32424
(904) 674-5488
Grant Gentry, City Manager
customers: 1,368
1990 MWh generated: 0
1990 MWh purchased: 27,700
1990 MWh sold: 26,200
1990 revenues: $1,942,000
established 1903

Bushnell, City of*
Box 115
Bushnell, Fla. 33513
(904) 793-2591
Lelman Shaw, Superintendent of Utilities
customers: 800
1990 MWh generated: 0
1990 MWh purchased: 16,654
1990 MWh sold: 15,543
1990 revenues: $1,264,000
established 1921

Chattahoochee, City of*
22 Jefferson St., Box 188
Chattahoochee, Fla. 32324
(904) 663-4046
Millard Hampton, Superintendent
customers: 1,328
1990 MWh generated: 0
1990 MWh purchased: 43,958
1990 MWh sold: 42,926
1990 revenues: $2,496,000
established 1915

Clewiston, City of*
141 Central Ave.
Clewiston, Fla. 33440
(813) 983-2171
C. F. Blair, Utility Director
customers: 3,798
1990 MWh generated: 0
1990 MWh purchased: 89,916
1990 MWh sold: 84,777
1990 revenues: $6,543,000
established 1942

Florida Municipal Power Agency*
7201 Lake Ellenor Drive, Suite 100
Orlando, Fla. 32809
(407) 859-7310
Claude L'Engle, General Manager
customers: wholesale only
nameplate capacity (kW): nuclear: 74,880; coal: 123,720; gas: 29,250
1990 MWh generated: 1,208,744
1990 MWh purchased: 1,852,011
1990 MWh sold: wholesale: 2,959,572
1990 revenues: wholesale: $144,524,000
established 1978
(*see expanded joint action agency section, page 140*)

Fort Meade, City of*
Box 856
Fort Meade, Fla. 33841
(813) 285-8191
Charles Saddler, City Manager
customers: 2,448
1990 MWh generated: 0
1990 MWh purchased: 39,430
1990 MWh sold: 39,030
1990 revenues: $3,071,000
established 1920

Fort Pierce Utilities Authority*
Box 3191
Fort Pierce, Fla. 34948-3191
(407) 464-5600
Harry Schindehette, Director of Utilities
customers: 23,665
nameplate capacity (kW): gas: 128,136; oil: 5,500; other: 8,375
1990 MWh generated: 287,165
1990 MWh purchased: 274,321
1990 MWh sold: retail: 483,543
wholesale: 51,562
1990 revenues: retail: $38,148,000
wholesale: $1,419,000
established 1911

Gainesville, City of*
301 S.E. Fourth Ave.,
Box 147114
Gainesville, Fla. 32614-7117
(904) 334-2811
Mike Kurtz, General Manager, Utilities
customers: 61,737
nameplate capacity (kW): coal: 250,750; gas: 266,910
1990 MWh generated: 1,867,036
1990 MWh purchased: 70,502
1990 MWh sold: retail: 1,217,719
wholesale: 657,973
1990 revenues: retail: $88,276,000
wholesale: $18,472,000
established 1912

Green Cove Springs, City of*
City Hall, 229 Walnut St.
Green Cove Springs, Fla. 32043
(904) 284-5621
Ted Biggs, Utilities Director
customers: 2,452
1990 MWh generated: 0
1990 MWh purchased: 90,214
1990 MWh sold: retail: 80,460
wholesale: 2,377
1990 revenues: retail: $6,103,000
wholesale: $174,000
established 1907

Havana Power & Light Co.*
711 N. Main St., Box 1068
Havana, Fla. 32333
(904) 539-6494
Cecil G. Trippe, Town Manager
customers: 1,221
1990 MWh generated: 0
1990 MWh purchased: 18,506
1990 MWh sold: 16,840
1990 revenues: $1,537,000
established 1926

Homestead, City of*
675 N. Flagler Ave.
Homestead, Fla. 33030
(305) 247-1801
Robert W. Brush, P.E., Director of Utilities
customers: 13,822
nameplate capacity (kW): gas: 59,100
1990 MWh generated: 96,279
1990 MWh purchased: 206,333
1990 MWh sold: retail: 250,884
wholesale: 36,998
1990 revenues: retail: $19,951,000
wholesale: $1,521,000
established 1916

Jacksonville Electric Authority*
21 W. Church St.
Jacksonville, Fla. 32202
(904) 632-6000
Royce Lyles, Managing Director
customers: 291,072
nameplate capacity (kW): coal: 679,000; oil: 2,238,100
1990 MWh generated: 6,171,426
1990 MWh purchased:
from utilities: 2,930,857
from nonutilities: 19,271
1990 MWh sold: retail: 8,104,953
wholesale: 625,455
1990 revenues: retail: $538,972,000
wholesale: $26,568,000
established 1895

Jacksonville Beach, City of*
11 N. Third St.
Jacksonville Beach, Fla. 32250
(904) 247-6281
Keith Roberts, Electric Utility Director
customers: 22,374
1990 MWh generated: 0
1990 MWh purchased: 467,151
1990 MWh sold: 444,614
1990 revenues: $41,632,000
established 1908

Key West Electric System*
1001 James St., Drawer 6100
Key West, Fla. 33041-6100
(305) 294-5272
Robert R. Padron, General Manager
customers: 22,535
nameplate capacity (kW): oil: 143,940
1990 MWh generated: 117,659
1990 MWh purchased:
from utilities: 384,343
from nonutilities: 9,468
1990 MWh sold: retail: 478,492
wholesale: 12
1990 revenues: retail: $46,192,000
wholesale: $1,000
established 1943

Kissimmee Utility Authority*
Box 423219
Kissimmee, Fla. 34742-3219
(407) 933-7777
James C. Welsh, President & General Manager
customers: 32,952
nameplate capacity (kW): coal: 22,390; gas: 53,150; oil: 5,600; other: 20,000
1990 MWh generated: 260,530
1990 MWh purchased: 444,230
1990 MWh sold: retail: 658,333
wholesale: 262
1990 revenues: retail: $59,248,000
wholesale: $15,000
established 1901

Lake Worth, City of*
1776 Lake Worth Road
Lake Worth, Fla. 33460
(407) 586-1665
Director of Utilities
customers: 24,243
nameplate capacity (kW): gas: 87,990; oil: 40,800; other: 10,000
1990 MWh generated: 174,104
1990 MWh purchased: 204,969
1990 MWh sold: retail: 333,074
wholesale: 29,050
1990 revenues: retail: $29,450,000
wholesale: $980,000
established 1916

Lakeland, City of†*
501 E. Lemon St.
Lakeland, Fla. 33801-5050
(813) 499-6300
R. G. Siegel, Managing Director
customers: 89,879
nameplate capacity (kW): coal: 200,400; gas: 336,000; oil: 62,350
1990 MWh generated: 1,669,848
1990 MWh purchased: 327,300
1990 MWh sold: retail: 1,893,092
wholesale: 12,282
1990 revenues: retail: $143,270,000
wholesale: $409,000
established 1904

Leesburg, City of*
2010 W. Griffin Road
Leesburg, Fla. 34748
(904) 728-9834
Joe M. Tardugno, Utility Superintendent
customers: 16,807
1990 MWh generated: 0
1990 MWh purchased: 355,956
1990 MWh sold: 353,302
1990 revenues: $25,823,000
established 1926

Moore Haven, City of*
99 Riverside Drive, Box 399
Moore Haven, Fla. 33471
(813) 946-0711
Carmen Whitney, City Clerk
customers: 1,084

FLORIDA *(continued)*

1990 MWh generated: 0
1990 MWh purchased: 13,060
1990 MWh sold: 11,748
1990 revenues: $1,121,000
established 1917

Mount Dora, City of
1250 N. Highland St.
Mount Dora, Fla. 32757
(904) 735-7155
Richard B. Davis, Director, Electric Utility
customers: 4,645
1990 MWh generated: 0
1990 MWh purchased: 65,527
1990 MWh sold: 63,059
1990 revenues: $5,102,000
established 1922

New Smyrna Beach Utilities Commission*
120 Sams Ave.
New Smyrna Beach, Fla. 32168
(904) 427-1361
R. Ronald Hagen, Director of Utilities
customers: 18,484
nameplate capacity (kW): gas: 5,235; oil: 14,040
1990 MWh generated: 35,222
1990 MWh purchased: 247,285
1990 MWh sold: retail: 263,019
wholesale: 323
1990 revenues: retail: $22,163,000
wholesale: $22,000
established 1922

Newberry, City of*
Box 369
Newberry, Fla. 32669
(904) 472-2161
Blaine Suggs, Director of Utilities
customers: 785
1990 MWh generated: 0
1990 MWh purchased: 24,662
1990 MWh sold: 24,662
1990 revenues: $1,948,000
established 1910

Ocala, City of*
Box 1270
Ocala, Fla. 32670
(904) 351-6600
Dean G. Shaw, C.P.M., Director
customers: 45,010
nameplate capacity (kW): unavailable
1990 MWh generated: 93,862
1990 MWh purchased: 821,949
1990 MWh sold: 871,030
1990 revenues: $61,723,000
established 1887

Orlando Utilities Commission*
Box 3193
Orlando, Fla. 32802
(407) 423-9100
T. C. Pope, General Manager
customers: 152,923
nameplate capacity (kW): nuclear: 65,960; coal: 452,070; gas: 675,460
1990 MWh generated: 4,724,990
1990 MWh purchased: 241,804
1990 MWh sold: retail: 3,477,570
wholesale: 1,374,307
1990 revenues: retail: $231,951,000
wholesale: $50,612,000
established 1923

Quincy, City of
404 W. Jefferson St., Box 1619
Quincy, Fla. 32351
(904) 627-7681
Otto Roberts, Director of Utilities
customers: 4,346
1990 MWh generated: 0
1990 MWh purchased: 147,000
1990 MWh sold: 137,000
1990 revenues: $8,313,000
established 1923

Reedy Creek Improvement District
Box 10170
Lake Buena Vista, Fla. 32830
(407) 828-2241
Tom Moses, District Administrator
customers: 780
1990 MWh generated: 236,425
1990 MWh purchased: 516,442
1990 MWh sold: 695,556
1990 revenues: 41,788,000
established 1987

St. Cloud, City of*
2901 17th St.
St. Cloud, Fla. 34769
(407) 957-7297
Samy Faried, Electric Utility Director
customers: 14,636
nameplate capacity (kW): gas: 29,000
1990 MWh generated: 44,166
1990 MWh purchased: 161,100
1990 MWh sold: retail: 192,442
wholesale: 1,611
1990 revenues: retail: $18,763,000
wholesale: $28,000
established 1916

Sebring Utilities Commission*
321 Mango St., Box 971
Sebring, Fla. 33871
(813) 385-0191
Joe E. Calhoun, General Manager
customers: 12,202
nameplate capacity (kW): gas: 12,650; oil: 55,305; other: 3,600
1990 MWh generated: 106,607
1990 MWh purchased: 84,993
1990 MWh sold: retail: 160,562
wholesale: 22,808
1990 revenues: retail: $15,545,000
wholesale: $1,152,000
established 1923

Starke, City of*
209 N. Thompson St., Drawer C
Starke, Fla. 32091
(904) 964-5027
William M. Weldon, City Operations Mgr./Utility Dir.
customers: 2,585
nameplate capacity (kW): gas: 7,100; oil: 1,000
1990 MWh generated: 4,494
1990 MWh purchased: 55,415
1990 MWh sold: 55,600
1990 revenues: $4,781,000
established 1892

Tallahassee, City of†*
300 S. Adams St.
Tallahassee, Fla. 32301
(904) 599-8515
B. W. Wait III, Director, Electric Department
customers: 76,510
nameplate capacity (kW): hydro: 12,310; oil: 537,570
1990 MWh generated: 1,426,761
1990 MWh purchased: 673,429
1990 MWh sold: retail: 1,822,002
wholesale: 197,601
1990 revenues: retail: $133,181,000
wholesale: $9,040,000
established 1902

Vero Beach, City of*
1053 20th Place, Box 1389
Vero Beach, Fla. 32960
(407) 567-5151
T.M. Klaric, City Manager
customers: 25,100
nameplate capacity (kW): gas: 117,000; oil: 13,400
1990 MWh generated: 216,115
1990 MWh purchased: 305,865
1990 MWh sold: retail: 498,198
wholesale: 6,142
1990 revenues: retail: $36,101,000
wholesale: $421,000
established 1919

Wauchula, City of*
Box 818
Wauchula, Fla. 33873
(813) 773-3131
Warren May Jr., Supervisor, Public Works
customers: 2,295
nameplate capacity (kW): oil: 7,100
1990 MWh generated: 15
1990 MWh purchased: 55,129
1990 MWh sold: 49,151
1990 revenues: $3,931,000
established 1924

Williston, City of
Box 160
Williston, Fla. 32696
(904) 528-3060
Donald J. Tanner, City Manager
customers: 1,289
1990 MWh generated: 0
1990 MWh purchased: 23,855
1990 MWh sold: 21,977
1990 revenues: $1,895,000

Georgia

(Systems designated (TVA) are distributors of Tennessee Valley Authority power and purchase all of their power from TVA.)

Acworth, City of
4375 Senator Russell Square
Acworth, Ga. 30101
(404) 974-5233
Jesse Barker, Superintendent
customers: 2,850
1990 MWh generated: 0
1990 MWh purchased: 36,245
1990 MWh sold: 36,245
1990 revenues: $2,881,000

Adel, City of*
Box 658
Adel, Ga. 31620
(912) 896-4504
John H. Flythe, City Manager
customers: 2,374
1990 MWh generated: 0
1990 MWh purchased: 77,341
1990 MWh sold: 67,597
1990 revenues: $4,882,000

Albany Water, Gas & Light Commission*
Box 1788
Albany, Ga. 31703
(912) 883-8330
U. W. Rodemann, General Manager
customers: 34,557
1990 MWh generated: 0
1990 MWh purchased: 857,525
1990 MWh sold: 844,729
1990 revenues: $51,824,000
established 1900

Barnesville, City of*
109 Forsythe St.
Barnesville, Ga. 30204
(404) 358-0181
Joanne C. Cannafax, City Administrator
customers: 2,466
1990 MWh generated: 0
1990 MWh purchased: 47,438
1990 MWh sold: 41,816
1990 revenues: $3,196,000
established 1910

Blakely, City of*
Box 350
Blakely, Ga. 31723
(912) 723-3677
Waylon Lacey, City Administrator
customers: 2,457
1990 MWh generated: 0
1990 MWh purchased: 62,190
1990 MWh sold: 55,510
1990 revenues: $4,177,000
established 1929

Brinson, Town of*
Box 728
Brinson, Ga. 31725
(912) 246-4062
Kenneth Hodges, Mayor
customers: 93
1990 MWh generated: 0
1990 MWh purchased: 1,740
1990 MWh sold: 1,508
1990 revenues: $86,000
established 1925

Buford, City of*
95 Scott St.
Buford, Ga. 30518
(404) 945-6761
Earley Biffle, City Manager
customers: 2,123
1990 MWh generated: 0
1990 MWh purchased: 73,643
1990 MWh sold: 70,567
1990 revenues: $3,097,000

Cairo, City of*
Box 29
Cairo, Ga. 31728
(912) 377-1954
David Smith, Utility Director
customers: 4,204
1990 MWh generated: 0
1990 MWh purchased: 121,839
1990 MWh sold: 110,085
1990 revenues: $6,958,000
established 1902

Calhoun, City of*
N. Wall St., Box 248
Calhoun, Ga. 30701
(404) 629-0151
Thomas Bond, Councilman
customers: 3,489
1990 MWh generated: 0
1990 MWh purchased: 279,268
1990 MWh sold: 276,482
1990 revenues: $16,170,000
established 1900

Camilla, City of*
30 E. Board St., Box 328
Camilla, Ga. 31730
(912) 336-5636
Jack McDaniel, Electric Superintendent
customers: 2,243
1990 MWh generated: 0
1990 MWh purchased: 71,604
1990 MWh sold: 68,050
1990 revenues: $4,388,000
established 1906

Cartersville, City of*
320 S. Erwin St., Box 648
Cartersville, Ga. 30120
(404) 382-1171
Keith Bass, Electric Superintendent
customers: 6,520
1990 MWh generated: 0
1990 MWh purchased: 352,000
1990 MWh sold: 341,650
1990 revenues: $19,952,000
established 1905

---

* Member, American Public Power Association
† Member, Demonstration of Energy-Efficient Developments Program

Chickamauga, City of
Box 69
Chickamauga, Ga. 30707
(404) 375-3177
John Culpepper, Manager
customers: 896
1990 MWh generated: 0
1990 MWh purchased: 43,124 (TVA)
1990 MWh sold: 41,807
1990 revenues: $2,177,000
established 1963

College Park Power*
1886 W. Harvard Ave.
College Park, Ga. 30337
(404) 669-3772
Marshall J. Collins, Director of Electrical Distribution
customers: 10,918
1990 MWh generated: 0
1990 MWh purchased: 253,773
1990 MWh sold: 243,619
1990 revenues: $16,737,000
established 1891

Commerce, City of*
Box 348
Commerce, Ga. 30529
(404) 335-3164
Clarence H. Bryant, City Manager
customers: 2,340
1990 MWh generated: 0
1990 MWh purchased: 42,668
1990 MWh sold: 41,472
1990 revenues: $2,414,000

Covington, City of*
2111 E. Conyers St.
Covington, Ga. 30209
(404) 786-5324
Frank B. Turner, City Manager
customers: 7,707
1990 MWh generated: 0
1990 MWh purchased: 187,585
1990 MWh sold: 173,686
1990 revenues: $12,081,000
established 1900

Crisp County Power Commission†*
201 S. Seventh St.
Cordele, Ga. 31015
(912) 273-3811
Frank L. Olson, General Manager
customers: 10,080
nameplate capacity (kW): coal: 12,500; hydro: 15,200; gas: 5,000
1990 MWh generated: 37,606
1990 MWh purchased: 255,188
1990 MWh sold: retail: 244,463
wholesale: 34,967
1990 revenues: retail: $14,092,000
wholesale: $441,000
established 1927

Dalton Water, Light & Sinking Fund Commission
1200 Harris St.
Dalton, Ga. 30722-0869
(404) 278-1313
DeForrest Parrott, General Manager/CEO
customers: 11,869
nameplate capacity (kW): nuclear: 76,280; coal: 51,610; oil: 740
1990 MWh generated: 634,094
1990 MWh purchased: 411,038
1990 MWh sold: retail: 964,858
wholesale: 69,064
1990 revenues: retail: $39,855,000
wholesale: $2,840,000
established 1890

Doerun, City of*
Box 37
Doerun, Ga. 31744
(912) 782-5444
Larry Clark, City Manager
customers: 487
1990 MWh generated: 0
1990 MWh purchased: 5,908
1990 MWh sold: 5,908
1990 revenues: $461,000
established 1911

Douglas, City of*
220 E. Bryan St., City Hall
Douglas, Ga. 31533
(912) 284-3302
Joe Glen Solomon, Electric Department Director
customers: 5,130
1990 MWh generated: 0
1990 MWh purchased: 186,880
1990 MWh sold: 183,159
1990 revenues: $11,925,000
established 1899

East Point, City of*
2777 East Point St.
East Point, Ga. 30344
(404) 765-1027
Bruce DeBolt, Public Utility Director
customers: 16,885
1990 MWh generated: 0
1990 MWh purchased: 291,868
1990 MWh sold: 271,095
1990 revenues: $19,312,000

Elberton, City of*
234 N. McIntosh St.
Elberton, Ga. 30635
(404) 283-1129
David C. Hudson, Superintendent
customers: 4,400
1990 MWh generated: 0
1990 MWh purchased: 102,440
1990 MWh sold: 94,392
1990 revenues: $6,183,000
established 1895

Ellaville, City of*
Wilson Street, Box 829
Ellaville, Ga. 31806
(912) 937-2207
Clarence Way, Electric Department Director
customers: 814
1990 MWh generated: 0
1990 MWh purchased: 13,976
1990 MWh sold: 13,378
1990 revenues: $996,000
established 1976

Fairburn, City of*
56 Malone St., Box 145
Fairburn, Ga. 30213
(404) 964-2244
Louise K. Miller, City Manager
customers: 1,955
1990 MWh generated: 0
1990 MWh purchased: 32,662
1990 MWh sold: 30,152
1990 revenues: $2,457,000
established 1854

Fitzgerald Water, Light & Bond Commission*
200 N. Hooker St., Drawer F
Fitzgerald, Ga. 31750
(912) 423-2016
Carlton J. Fowler, General Superintendent
customers: 5,650
1990 MWh generated: 0
1990 MWh purchased: 164,304
1990 MWh sold: 150,882
1990 revenues: $9,593,000
established 1907

Forsyth, City of*
Box 1447
Forsyth, Ga. 31029
(912) 994-2444
Alvin Randall, Electrical Superintendent
customers: 2,291
1990 MWh generated: 0
1990 MWh purchased: 47,833
1990 MWh sold: 42,971
1990 revenues: $3,823,000

Fort Valley Utility Commission*
Box 1529
Fort Valley, Ga. 31030
(912) 825-7701
Glen M. Taylor, General Manager
customers: 4,515
nameplate capacity (kW): unavailable
1990 MWh generated: 315
1990 MWh purchased: 105,581
1990 MWh sold: 100,439
1990 revenues: $6,147,000
established 1905

Grantville, City of*
Box 126
Grantville, Ga. 30220
(404) 583-2289
Phyllis Schlichtint, Clerk
customers: 450
1990 MWh generated: 0
1990 MWh purchased: 4,634
1990 MWh sold: 3,704
1990 revenues: $199,000

Griffin Electric Department*
120 N. Sixth St., Drawer T
Griffin, Ga. 30224
(404) 229-6406
John P. Jones, Director, Electric Department
customers: 13,493
1990 MWh generated: 0
1990 MWh purchased: 275,792
1990 MWh sold: 274,041
1990 revenues: $17,624,000
established 1895

Hampton, City of
Box 225
Hampton, Ga. 30228
(404) 946-4306
John L. Maddox, Superintendent
customers: 1,049
1990 MWh generated: 0
1990 MWh purchased: 14,386
1990 MWh sold: 13,003
1990 revenues: $776,000

Hogansville, City of*
400 E. Main St.
Hogansville, Ga. 30230
(404) 637-8629
Randy Harris, City Manager
customers: 1,485
1990 MWh generated: 0
1990 MWh purchased: 18,147
1990 MWh sold: 18,147
1990 revenues: $1,389,000

Jackson, City of*
135 S. Mulberry St.
Jackson, Ga. 30233
(404) 775-7535
Chris Mercer, Electric Superintendent
customers: 1,474
1990 MWh generated: 0
1990 MWh purchased: 34,272
1990 MWh sold: 30,765
1990 revenues: $2,169,000
established 1900

La Fayette, City of*
Box 89
La Fayette, Ga. 30728
(404) 638-1082
David Aldrich, City Manager
customers: 3,527
1990 MWh generated: 0
1990 MWh purchased: 96,656
1990 MWh sold: 86,966
1990 revenues: $5,492,000
established 1925

La Grange, City of*
200 Ridley Ave., Box 430
La Grange, Ga. 32040
(404) 883-2065
C. W. Hughes Jr., Director of Utilities
customers: 11,458
1990 MWh generated: 0
1990 MWh purchased: 519,797
1990 MWh sold: 503,927
1990 revenues: $29,419,000
established 1900

Lawrenceville, City of*
Box 1017
Lawrenceville, Ga. 30246
(404) 963-2414
Don Martin, Utilities Superintendent
customers: 7,288
1990 MWh generated: 0
1990 MWh purchased: 168,245
1990 MWh sold: 162,526
1990 revenues: $11,193,000
established 1920

Mansfield, City of*
21 W. First Ave.
Mansfield, Ga. 30255
(404) 786-7235
Jack Roquemore, Mayor
customers: 232
1990 MWh generated: 0
1990 MWh purchased: 3,863
1990 MWh sold: 3,382
1990 revenues: $237,000
established 1910

Marietta Power*
205 Lawrence St., Box 609
Marietta, Ga. 30061
(404) 429-4245
Ed Hoback, Electric Director
customers: 40,059
1990 MWh generated: 0
1990 MWh purchased: 803,578
1990 MWh sold: 777,944
1990 revenues: $70,633,000
established 1906

Monroe, City of*
215 N. Broad St., Box 725
Monroe, Ga. 30655
(404) 267-5756
John T. Briscoe Jr., Electric Superintendent
customers: 4,696
1990 MWh generated: 0
1990 MWh purchased: 97,460
1990 MWh sold: 93,249
1990 revenues: $5,671,000
established 1906

Monticello, City of*
115 E. Green St.
Monticello, Ga. 31064
(404) 468-6062
Harry H. Aldridge Jr., Mayor
customers: 1,163
1990 MWh generated: 0
1990 MWh purchased: 19,040
1990 MWh sold: 16,965
1990 revenues: $1,304,000
established 1905

Moultrie, City of*
Box 580
Moultrie, Ga. 31776
(912) 985-1974
Robert C. Roberson, City Manager
customers: 6,651
1990 MWh generated: 0
1990 MWh purchased: 165,684
1990 MWh sold: 146,631
1990 revenues: $10,919,000
established 1898

Municipal Electric Authority of Georgia*
1470 Riveredge Parkway, N.W.

GEORGIA *(continued)*

Atlanta, Ga. 30328
(404) 952-5445
Donald L. Stokley, President & General Manager
customers: wholesale only
nameplate capacity (kW): nuclear: 852,510; coal: 825,660; oil: 7,970
1990 MWh generated: 8,097,246
1990 MWh purchased:
  from utilities: 1,961,686
  from nonutilities: 9,939
1990 MWh sold: wholesale: 9,726,757
1990 revenues: wholesale: $569,706,000
established 1975
(see expanded joint action agency section, page 140)

Newnan Water, Sewerage & Light Commission*
70 Sewell Road
Newnan, Ga. 30263
(404) 253-5516
Dennis McEntire, General Manager
customers: 6,490
1990 MWh generated: 0
1990 MWh purchased: 115,170
1990 MWh sold: 108,627
1990 revenues: $9,647,000
established 1904

Norcross, City of*
65 Lawrenceville St.
Norcross, Ga. 30071
(404) 448-2122
Brad Cole, Electric Superintendent
customers: 3,076
1990 MWh generated: 0
1990 MWh purchased: 56,562
1990 MWh sold: 51,822
1990 revenues: $3,792,000
established 1929

Oxford, City of*
810 Whatcoat St., Box 207
Oxford, Ga. 30267
(404) 786-7004
Roscoe Wonack Jr., Superintendent
customers: 613
1990 MWh generated: 0
1990 MWh purchased: 10,342
1990 MWh sold: 10,300
1990 revenues: $793,000

Palmetto, City of*
549 Main St., Drawer 190
Palmetto, Ga. 30268
(404) 463-3377
William H. Shell, City Administrator
customers: 1,197
1990 MWh generated: 0
1990 MWh purchased: 26,844
1990 MWh sold: 24,259
1990 revenues: $1,696,000

Quitman, City of*
Box 208
Quitman, Ga. 31643
(912) 263-4166
Kerry S. Waldron, City Manager
customers: 2,478
1990 MWh generated: 0
1990 MWh purchased: 53,040
1990 MWh sold: 47,187
1990 revenues: $3,263,000
established 1905

Sandersville, City of*
Box 71
Sandersville, Ga. 31082
(912) 552-3475
John D. Everett, City Clerk
customers: 2,522
1990 MWh generated: 0
1990 MWh purchased: 56,779
1990 MWh sold: 44,779
1990 revenues: $3,355,000
established 1907

Sylvania, City of
Box 555
Sylvania, Ga. 30467
(912) 564-7411
Roland C. Stubbs, City Manager
customers: 2,010
1990 MWh generated: 0
1990 MWh purchased: 101,902
1990 MWh sold: 97,064
1990 revenues: $5,900,000
established 1910

Sylvester, City of*
105 E. King St.
Sylvester, Ga. 31791
(912) 776-8508
Charles Jones, Superintendent of Utilities
customers: 2,428
1990 MWh generated: 0
1990 MWh purchased: 68,218
1990 MWh sold: 60,703
1990 revenues: $4,134,000
established 1903

Thomaston, City of*
613 N. Church St.
Thomaston, Ga. 30286
(404) 647-6633
Skip Nalley, City Manager
customers: 4,013
1990 MWh generated: 0
1990 MWh purchased: 74,378
1990 MWh sold: 67,330
1990 revenues: $5,462,000

Thomasville Water & Light Department*
411 W. Jackson St., Box 1397
Thomasville, Ga. 31799
(912) 226-3518
William T. Berry, General Superintendent
customers: 15,042
1990 MWh generated: 0
1990 MWh purchased: 382,400
1990 MWh sold: 364,635
1990 revenues: $22,820,000
established 1906

Washington, City of*
Box 9
Washington, Ga. 30673
(404) 678-3277
Warren D. Sisson, City Administrator
customers: 2,257
1990 MWh generated: 0
1990 MWh purchased: 91,130
1990 MWh sold: 89,281
1990 revenues: $5,078,000
established 1885

West Point, City of*
Box 487
West Point, Ga. 31833
(404) 645-2226
Joel T. Wood, City Administrator
customers: 1,576
1990 MWh generated: 0
1990 MWh purchased: 36,726
1990 MWh sold: 33,027
1990 revenues: $1,791,000
established 1900

Whigham, City of*
Box 71
Whigham, Ga. 31797
(912) 762-4114
Keith Sandefur, Electric Superintendent
customers: 279
1990 MWh generated: 0
1990 MWh purchased: 6,237
1990 MWh sold: 5,381
1990 revenues: $375,000
established 1908

Guam

Guam Power Authority†*
Box 2977
Agana, Guam 96910
(671) 477-9100
John M. Benavente, General Manager
customers: 33,019
nameplate capacity (kW): unavailable
1990 MWh generated: 1,288,364
1990 MWh purchased: 0
1990 MWh sold: 789,618
1990 revenues: $73,534,000
established 1968

Idaho

Albion Light & Water Plant
Box 163
Albion, Idaho 83311
(208) 673-5351
John K. Powell, Mayor
customers: 160
1990 MWh generated: 0
1990 MWh purchased: 3,134
1990 MWh sold: 3,134
1990 revenues: $104,000
established 1916

Bonners Ferry, City of*
104 Main St., Box 149
Bonners Ferry, Idaho 83805
(208) 267-3105
Mike Woodward, City Administrator
customers: 1,934
nameplate capacity (kW): hydro: 3,975; oil: 240
1990 MWh generated: 31,077
1990 MWh purchased: 45,334
1990 MWh sold: 56,927
1990 revenues: $2,164,000
established 1922

Burley, City of*
2020 Parke Ave., Box 1090
Burley, Idaho 83318
(208) 678-2538
Donald R. Hill, Utilities Director
customers: 3,913
1990 MWh generated: 0
1990 MWh purchased: 102,000
1990 MWh sold: 98,000
1990 revenues: $3,841,000
established 1914

Declo, City of
Box 159
Declo, Idaho 83323
(208) 654-2124
Nelda Matthews, Clerk
customers: 105
1990 MWh generated: 0
1990 MWh purchased: 3,186
1990 MWh sold: 3,057
1990 revenues: $107,000
established 1910

Heyburn, City of
Box 147
Heyburn, Idaho 83336
(208) 678-8158
Bob Despain, Manager
customers: 1,091
1990 MWh generated: 0
1990 MWh purchased: 91,354
1990 MWh sold: 89,005
1990 revenues: $2,723,000
established 1921

Idaho Falls, City of*
140 S. Capital, Box 50220
Idaho Falls, Idaho 83405
(208) 529-1430
Steve Harrison, Manager
customers: 20,210
nameplate capacity (kW): hydro: 50,400
1990 MWh generated: 245,190
1990 MWh purchased: 319,752
1990 MWh sold: 518,808
1990 revenues: retail: $21,120,000
  wholesale: $2,091,000
established 1900

Minidoka, City of
Box 85
Minidoka, Idaho 83343
(208) 532-4575
Deon Fassett, Clerk
customers: 45
1990 MWh generated: 0
1990 MWh purchased: 917
1990 MWh sold: 704
1990 revenues: $31,000
established 1924

Plummer, City of
Box B
Plummer, Idaho 83851
(208) 686-1386
John L. Hines, Superintendent of Public Works
customers: 827
1990 MWh generated: 0
1990 MWh purchased: 27,813
1990 MWh sold: 27,785
1990 revenues: $1,095,000
established 1916

Rupert, City of
Box 426
Rupert, Idaho 83350
(208) 436-9608
Ivan L. Myers, Electric Department
customers: 2,667
1990 MWh generated: 0
1990 MWh purchased: 74,403
1990 MWh sold: 67,367
1990 revenues: $2,704,000
established 1919

Soda Springs, City of
9 W. Second St. S.
Soda Springs, Idaho 83276
(208) 547-2600
Clayton Schmitt, City Administrator
customers: 1,526
nameplate capacity (kW): hydro: 650
1990 MWh generated: 1,367
1990 MWh purchased: 22,938
1990 MWh sold: 21,285
1990 revenues: $1,069,000
established 1912

Weiser, City of
55 W. Idaho St.
Weiser, Idaho 83672
(208) 549-1965
M. I. Moore, Clerk
customers: 2,155
1990 MWh generated: 0
1990 MWh purchased: 45,093
1990 MWh sold: 42,161
1990 revenues: $1,717,000
established 1908

Illinois

Albany, City of
101 N. Lime St., Box 356
Albany, Ill. 61230
(309) 887-4064
Gary Gooch, Electrical Superintendent
customers: 404
1990 MWh generated: 0
1990 MWh purchased: 4,294
1990 MWh sold: 3,907

---

* Member, American Public Power Association
† Member, Demonstration of Energy-Efficient Developments Program

1990 revenues: $226,000
established 1935

Allendale, Village of*
Box 85
Allendale, Ill. 62410
(618) 299-3181
Rick Medler, Superintendent
customers: 260
1990 MWh generated: 0
1990 MWh purchased: 2,526
1990 MWh sold: 2,472
1990 revenues: $141,000
established 1949

Altamont, City of
202 N. 2nd St., Box 305
Altamont, Ill. 62411
(618) 483-5212
Terry White, Electrical Superintendent
customers: 1,238
1990 MWh generated: 0
1990 MWh purchased: 20,975
1990 MWh sold: 16,547
1990 revenues: $1,140,000
established 1901

Batavia, City of
101 N. Island Ave.
Batavia, Ill. 60510
(708) 879-1424
Gary Larsen, Superintendent
customers: 7,198
1990 MWh generated: 0
1990 MWh purchased: 174,096
1990 MWh sold: 165,831
1990 revenues: $10,940,000
established 1898

Bethany, Village of†*
201 W. Main St., Box 352
Bethany, Ill. 61914
(217) 665-3351
Michael W. Collins, Manager of Utility
customers: 675
1990 MWh generated: 0
1990 MWh purchased: 7,500
1990 MWh sold: 7,300
1990 revenues: $508,000
established 1914

Breese, City of*
800 N. 1st St.
Breese, Ill. 62230
(618) 526-7151
Martin F. Johnson, Superintendent of Utilities
customers: 1,581
nameplate capacity (kW): oil: 8,900
1990 MWh generated: 201
1990 MWh purchased: 27,833
1990 MWh sold: 26,245
1990 revenues: $1,818,000
established 1905

Bushnell, City of*
148 E. Hail St.
Bushnell, Ill. 61422
(309) 772-2029
Michael McCleery, Manager of Utility
customers: 1,303
nameplate capacity (kW): gas: 4,400; oil: 1,400
1990 MWh generated: 40
1990 MWh purchased: 24,913
1990 MWh sold: 24,020
1990 revenues: $1,478,000
established 1941

Cairo Public Utility Commission*
1100 Commercial Ave.
Cairo, Ill. 62914
(618) 734-3200
Karl H. Klein, General Manager
customers: 2,316
1990 MWh generated: 0
1990 MWh purchased: 87,662
1990 MWh sold: 83,674
1990 revenues: $4,797,000
established 1947

Carlyle Municipal Electric*
850 Franklin St.
Carlyle, Ill. 62231
(618) 594-3221
Larry Hawn, Electric Superintendent
customers: 1,644
nameplate capacity (kW): oil: 5,900
1990 MWh generated: 184
1990 MWh purchased: 29,284
1990 MWh sold: 26,621
1990 revenues: $1,931,000
established 1901

Carmi Light & Water
225 E. Main St.
Carmi, Ill. 62821
(618) 382-5555
Jimmy Gaines, Mayor
customers: 3,881
nameplate capacity (kW): gas: 14,805; oil: 1,856
1990 MWh generated: 1,991
1990 MWh purchased: 55,087
1990 MWh sold: 48,012
1990 revenues: $3,378,000
established 1890

Casey, City of
108 E. Main St.
Casey, Ill. 62420
(217) 932-4885
John O. Bell, Superintendent of Utilities
customers: 1,830
1990 MWh generated: 0
1990 MWh purchased: 26,134
1990 MWh sold: 24,827
1990 revenues: $1,587,000
established 1900

Chatham, Village of*
117 E. Mulberry St.
Chatham, Ill. 62629
(217) 483-2451
Edward Osman, Chairman, Electric Trustees
customers: 2,213
1990 MWh generated: 0
1990 MWh purchased: 31,109
1990 MWh sold: 26,597
1990 revenues: $1,650,000
established 1942

Fairfield, City of
109 N.E. 2nd St.
Fairfield, Ill. 62837
(618) 842-4821
Claude Trotter, Superintendent
customers: 3,230
nameplate capacity (kW): gas: 4,800; oil: 7,700
1990 MWh generated: -57
1990 MWh purchased: 64,532
1990 MWh sold: 61,305
1990 revenues: $3,701,000
established 1898

Farmer City, City of*
105 S. Main St., Box 40
Farmer City, Ill. 61842
(309) 928-3421
Richard Carter, Superintendent
customers: 1,202
nameplate capacity (kW): gas: 5,040; oil: 2,008
1990 MWh generated: 42
1990 MWh purchased: 25,898
1990 MWh sold: 24,487
1990 revenues: $1,817,000
established 1888

Flora, City of
122 N. Main St.
Flora, Ill. 62839
(618) 662-8313
Marion Long, Public Works Director
customers: 2,860
1990 MWh generated: 0
1990 MWh purchased: 68,447
1990 MWh sold: 63,536
1990 revenues: $4,328,000

Freeburg Municipal Light & Power
412 W. High
Freeburg, Ill. 62243
(618) 539-3112
Quinton W. Laabs, Director of Services
customers: 1,399
nameplate capacity (kW): gas: 5,380; oil: 1,645
1990 MWh generated: 237
1990 MWh purchased: 20,935
1990 MWh sold: 18,886
1990 revenues: $1,195,000
established 1904

Geneseo, City of†*
101 S. State
Geneseo, Ill. 61254
(309) 944-5899
Wayne Smithson, Superintendent
customers: 3,230
nameplate capacity (kW): gas: 17,600; oil: 5,400
1990 MWh generated: 21,792
1990 MWh purchased: 26,953
1990 MWh sold: 45,191
1990 revenues: $2,853,000
established 1933

Geneva, City of
1800 South St.
Geneva, Ill. 60134
(708) 232-1503
Bill Hinds, Superintendent
customers: 5,730
1990 MWh generated: 0
1990 MWh purchased:
from utilities: 121,048
from nonutilities: 15,908
1990 MWh sold: 132,599
1990 revenues: $7,957,000
established 1894

Greenup, Village of
115 Cumberland St.
Greenup, Ill. 62428
(217) 923-3490
John D. Carr, Superintendent of Utilities
customers: 896
1990 MWh generated: 0
1990 MWh purchased: 10,921
1990 MWh sold: 9,544
1990 revenues: $713,000
established 1954

Highland, City of*
1115 Broadway St.
Highland, Ill. 62249
(618) 654-7511
Joseph E. Frey, City Manager
customers: 4,839
nameplate capacity (kW): gas: 12,930
1990 MWh generated: 670
1990 MWh purchased: 96,360
1990 MWh sold: 92,000
1990 revenues: $5,718,000
established 1899

Illinois Municipal Electric Agency*
919 S. Spring
Springfield, Ill. 62704
(217) 789-4632
Frank G. Madonia, General Manager
customers: wholesale only
1990 MWh generated: 0
1990 MWh purchased: 1,020,317
1990 MWh sold: wholesale: 996,335
1990 revenues: wholesale: $37,949,000
established 1984
(see expanded joint action agency section, page 140)

Ladd, Village of
121 N. Main St., Box 305
Ladd, Ill. 61329
(815) 894-2351
Clarence Foster, General Superintendent
customers: 556
1990 MWh generated: 0
1990 MWh purchased: 11,158
1990 MWh sold: 10,152
1990 revenues: $647,000

Marshall Utilities†*
708 Archer Ave., Box 298
Marshall, Ill. 62441
(217) 826-8087
George Q. Smith, Superintendent
customers: 2,123
1990 MWh generated: 0
1990 MWh purchased: 36,903
1990 MWh sold: 33,239
1990 revenues: $2,247,000
established 1903

Mascoutah, City of
40 W. Union St.
Mascoutah, Ill. 62258
(618) 566-2965
Gary C. Mackey, City Manager
customers: 2,329
nameplate capacity (kW): oil: 6,700
1990 MWh generated: 288
1990 MWh purchased: 32,041
1990 MWh sold: 27,846
1990 revenues: $1,901,000
established 1903

McLeansboro, City of
102 W. Main St.
McLeansboro, Ill. 62859
(618) 643-2224
Joe Evans, Superintendent, Electric
customers: 1,732
nameplate capacity (kW): oil: 8,625
1990 MWh generated: 87
1990 MWh purchased: 19,094
1990 MWh sold: 15,985
1990 revenues: $1,322,000
established 1897

Metropolis, City of
106 W. Fifth St.
Metropolis, Ill. 62960
(618) 524-2711
Curtis Lang, Light Superintendent
customers: 3,354
1990 MWh generated: 0
1990 MWh purchased: 51,405
1990 MWh sold: 43,315
1990 revenues: retail: $3,235,000
wholesale: $169,000

Naperville, City of*
175 W. Jackson Ave.
Naperville, Ill. 60566
(708) 420-6181
Ronald S. Miller, City Manager
customers: 32,997
1990 MWh generated: 0
1990 MWh purchased:
from utilities: 695,110
from nonutilities: 4,013
1990 MWh sold: 684,533
1990 revenues: $48,560,000
established 1898

Newton, City of
108 N. Van Buren St., Box 165
Newton, Ill. 62448
(618) 783-8452
Bob Reynolds, Electric Department Head
customers: 1,682
1990 MWh generated: 0
1990 MWh purchased: 26,460
1990 MWh sold: 23,719
1990 revenues: $1,457,000

established 1925

Oglesby, City of*
128 W. Walnut St., Box 10
Oglesby, Ill. 61348
(815) 883-3389
Craig Stickney, Utilities Superintendent
customers: 1,798
1990 MWh generated: 0
1990 MWh purchased: 36,660
1990 MWh sold: 33,031
1990 revenues: $1,797,000
established 1925

Peru, City of*
1415 Water St., Box 299
Peru, Ill. 61354
(815) 223-0044
Joe Prazen, Superintendent of Electric Dept.
customers: 4,684
nameplate capacity (kW): coal: 7,500; oil: 16,300
1990 MWh generated: -300
1990 MWh purchased: 102,200
1990 MWh sold: 94,800
1990 revenues: $6,315,000
established 1892

Princeton, City of†*
2 S. Main St.
Princeton, Ill. 61356
(815) 872-5551
Terry Maloy, Supt. of Electric Distribution
customers: 3,935
nameplate capacity (kW): gas: 38,400
1990 MWh generated: 7,692
1990 MWh purchased: 82,848
1990 MWh sold: 76,391
1990 revenues: $6,010,000
established 1900

Rantoul, Village of†*
100 W. Grove St.
Rantoul, Ill. 61866
(217) 897-2178
Herb Bennett, Superintendent
customers: 4,885
nameplate capacity (kW): oil: 17,000
1990 MWh generated: 12
1990 MWh purchased: 99,354
1990 MWh sold: 92,256
1990 revenues: $6,326,000
established 1898

Red Bud, City of
200 E. Market St.
Red Bud. Ill. 62278
(618) 282-3339
Ray Mitchell, Superintendent
customers: 1,458
nameplate capacity (kW): gas: 9,460; oil: 1,556
1990 MWh generated: 127
1990 MWh purchased: 34,371
1990 MWh sold: 31,539
1990 revenues: $1,863,000
established 1904

Riverton, Village of
313 E. Jefferson St.
Riverton, Ill. 62561
(217) 629-9122
Michael Brewer, Superintendent
customers: 1,303
1990 MWh generated: 0
1990 MWh purchased: 14,035
1990 MWh sold: 14,000
1990 revenues: $982,000

Rochelle, City of†*
333 Line Highway
Rochelle, Ill. 61068
(815) 562-4155
Ray Schwartz, General Superintendent
customers: 5,796
nameplate capacity (kW): gas: 32,300; oil: 3,700
1990 MWh generated: 40,266
1990 MWh purchased: 110,504
1990 MWh sold: 142,002
1990 revenues: $9,207,000
established 1893

Rock Falls, City of †*
205 E. Third St.
Rock Falls, Ill. 61071
(815) 622-1145
Robert O'Donnell, Director
customers: 5,021
nameplate capacity (kW): unavailable
1990 MWh generated: 10,036
1990 MWh purchased: 57,000
1990 MWh sold: 65,123
1990 revenues: $4,998,000
established 1895

Roodhouse, City of
City Hall
Roodhouse, Ill. 62082
(217) 589-4635
Dannie Monroe, Superintendent
customers: 909
1990 MWh generated: 0
1990 MWh purchased: 11,565
1990 MWh sold: 9,948
1990 revenues: $812,000
established 1892

St. Charles, City of*
2 E. Main St.
St. Charles, Ill. 60174
(708) 377-4407
Patrick J. Boyle, Director
customers: 10,614
1990 MWh generated: 0
1990 MWh purchased: 296,817
1990 MWh sold: 292,433
1990 revenues: $19,978,000
established 1892

Springfield City Water, Light & Power†*
Municipal Bldg., 7th & Monroe Sts., Room 207
Springfield, Ill. 62757
(217) 789-2060
Lynn Frasco, General Manager
customers: 60,067
nameplate capacity (kW): coal: 462,860; oil: 44,190
1990 MWh generated: 1,655,583
1990 MWh purchased: 9,147
1990 MWh sold: retail: 1,427,355
wholesale: 134,942
1990 revenues: retail: $79,123,000
wholesale: $3,624,000
established 1906

Sullivan, City of†*
2 W. Harrison St.
Sullivan, Ill. 61951
(217) 728-4383
William Harris, Electric Superintendent
customers: 2,366
nameplate capacity (kW): gas: 14,426; oil: 1,436
1990 MWh generated: 23,094
1990 MWh purchased: 18,780
1990 MWh sold: 37,133
1990 revenues: $2,410,000
established 1914

Waterloo, City of
104 W. Fourth St.
Waterloo, Ill. 62298
(618) 939-6413
George Muertz, Superintendent
customers: 2,592
nameplate capacity (kW): gas: 6,800; oil: 4,598
1990 MWh generated: 385
1990 MWh purchased: 39,207
1990 MWh sold: 34,106
1990 revenues: $2,060,000

Winnetka, Village of†*
510 Green Bay Road
Winnetka, Ill. 60093
(708) 501-6000
Bryan McInturff, Director of Water & Electric
customers: 5,015
nameplate capacity (kW): coal: 25,500; oil: 4,820
1990 MWh generated: 30,702
1990 MWh purchased: 57,407
1990 MWh sold: 84,392
1990 revenues: $7,544,000
established 1900

Indiana

Advance Municipal Light & Power*
Town of Advance, 112 N. Main Street
Advance, Ind. 46102
(317) 676-6611
Mark C. Landrum, Superintendent
customers: 294
1990 MWh generated: 0
1990 MWh purchased: 3,900
1990 MWh sold: 3,461
1990 revenues: $247,000
established 1914

Anderson Municipal Light & Power*
550 Baxter Road
Anderson, Ind. 46011
(317) 646-5741
Charles J. Myers, Superintendent
customers: 33,469
1990 MWh generated: 0
1990 MWh purchased: 619,650
1990 MWh sold: 588,114
1990 revenues: $33,345,000
established 1897

Argos, Town of
101 S. First St.
Argos, Ind. 46501
(219) 892-5717
Robert Palmer, Superintendent
customers: 758
1990 MWh generated: 0
1990 MWh purchased: 24,504
1990 MWh sold: 24,504
1990 revenues: $1,353,000
established 1897

Auburn, City of
Cedar & Ninth Sts.
Auburn, Ind. 46706
(219) 925-8251
Stuart Tuttle, Superintendent
customers: 4,814
1990 MWh generated: 0
1990 MWh purchased: 266,154
1990 MWh sold: 261,906
1990 revenues: $13,671,000
established 1900

Avilla, City of
117 S. Main St., Box 49
Avilla, Ind. 46710-0049
(219) 897-2781
Jean Traxler, Clerk-Treasurer
customers: 613
1990 MWh generated: 0
1990 MWh purchased: 14,243
1990 MWh sold: 13,339
1990 revenues: $663,000
established 1912

Bainbridge, Town of*
Box 343
Bainbridge, Ind. 46105
(317) 522-6238
James Nelson, Superintendent
customers: 328
1990 MWh generated: 0
1990 MWh purchased: 3,742
1990 MWh sold: 3,355
1990 revenues: $231,000
established 1915

Bargersville Power & Light*
Box 420
Bargersville, Ind. 46106
(317) 422-5115
Joe M. Harrod, Superintendent
customers: 1,942
1990 MWh generated: 0
1990 MWh purchased: 30,718
1990 MWh sold: 28,987
1990 revenues: $1,911,000
established 1921

Bluffton, City of
128 E. Market St.
Bluffton, Ind. 46714
(219) 824-2500
Edward C. Davis, Superintendent
customers: 4,688
nameplate capacity (kW): gas: 5,000; oil: 2,000
1990 MWh generated: 2,795
1990 MWh purchased: 137,803
1990 MWh sold: 136,357
1990 revenues: $6,767,000
established 1889

Boonville, City of
Box 508
Boonville, Ind. 47601
(812) 897-0140
Charles E. Davis, Director
customers: 3,465
1990 MWh generated: 0
1990 MWh purchased: 62,300
1990 MWh sold: 57,800
1990 revenues: $4,111,000

Bremen Electric Light & Power Co.*
104 W. Plymouth St.
Bremen, Ind. 46506
(219) 546-4324
Lowell Martin, Superintendent
customers: 1,924
1990 MWh generated: 0
1990 MWh purchased: 67,470
1990 MWh sold: 63,367
1990 revenues: $3.357,000
established 1895

Brooklyn, Town of
10 N. Main St.
Brooklyn, Ind. 46111
(311) 831-3343
Rick Hobious, Superintendent
customers: 473
1990 MWh generated: 0
1990 MWh purchased: 5,214
1990 MWh sold: 5,147
1990 revenues: $407,000

Brookston, Town of
205 E. Third St., Box 238
Brookston, Ind. 47923
(317) 563-3171
Marvin Amsler, Superintendent
customers: 806
1990 MWh generated: 0
1990 MWh purchased: 11,486
1990 MWh sold: 9,679
1990 revenues: $627,000
established 1916

Cannelton, City of
610 Washington St.
Cannelton, Ind. 47520
(812) 547-7919

---

* Member, American Public Power Association
† Member, Demonstration of Energy-Efficient Developments Program

Jeff Braun, General Manager
customers: 972
1990 MWh generated: 0
1990 MWh purchased: 19,330
1990 MWh sold: 17,168
1990 revenues: $1,113,000
established 1941

Centerville, Town of*
204 E. Main St.
Centerville, Ind. 47330
(317) 855-5515
James F. Bowen, Town Manager
customers: 1,511
1990 MWh generated: 0
1990 MWh purchased: 19,809
1990 MWh sold: 19,413
1990 revenues: $951,000
established 1913

Chalmers, Town of
Box 827
Chalmers, Ind. 47929
(219) 984-5494
Perry W. Hughes, Superintendent
customers: 313
1990 MWh generated: 0
1990 MWh purchased: 3,427
1990 MWh sold: 3,083
1990 revenues: $208,000
established 1915

Coatesville, Town of
Box 143
Coatesville, Ind. 46121
(317) 386-7205
Marion F. Wallus, Superintendent
customers: 275
1990 MWh generated: 0
1990 MWh purchased: 3,175
1990 MWh sold: 3,125
1990 revenues: $193,000
established 1912

Columbia City, City of*
112 S. Chauncey St.
Columbia City, Ind. 46725
(219) 244-5141
Joe Miller, Superintendent
customers: 3,937
1990 MWh generated: 0
1990 MWh purchased: 87,360
1990 MWh sold: 84,675
1990 revenues: $4,962,000
established 1898

Covington, City of*
413 Washington St.
Covington, Ind. 47932
(317) 793-2331
David Clodfelder, Superintendent
customers: 1,519
1990 MWh generated: 0
1990 MWh purchased: 21,402
1990 MWh sold: 19,854
1990 revenues: $1,203,000
established 1913

Crawfordsville Electric, Light and Power†*
808 Lafayette Road, Box 428
Crawfordsville, Ind. 47933
(317) 362-1900
Roy E. Kaser, Manager
customers: 8,261
nameplate capacity (kW): coal: 24,150
1990 MWh generated: 42,956
1990 MWh purchased: 308,744
1990 MWh sold: retail: 304,953
wholesale: 42,956
1990 revenues: retail: $14,874,000
wholesale: $2,609,000
established 1890

Darlington Light & Power Co.*
104 S. Franklin St.
Darlington, Ind. 47940
(317) 794-4496
Richard A. Smith, Superintendent
customers: 551
1990 MWh generated: 0
1990 MWh purchased: 10,310
1990 MWh sold: 9,020
1990 revenues: $621,000
established 1919

Dublin, Town of
Cumberland St.
Dublin, Ind. 47335
(317) 478-4878
Rex Snyder, Superintendent
customers: 433
1990 MWh generated: 0
1990 MWh purchased: 4,257
1990 MWh sold: 3,693
1990 revenues: $217,000
established 1920

Dunreith, City of
Box 219, 115 Washington St.
Dunreith, Ind. 47337
(317) 987-7474
Shelby Lenville, Clerk/Treasurer
customers: 125
1990 MWh generated: 0
1990 MWh purchased: 1,215
1990 MWh sold: 1,134
1990 revenues: $79,000

Edinburgh Municipal Utility*
107 S. Holland St., Box 65
Edinburgh, Ind. 46124-0065
(812) 526-2919
Robert L. Davis, Public Works Director
customers: 2,316
1990 MWh generated: 0
1990 MWh purchased: 69,038
1990 MWh sold: 67,458
1990 revenues: $3,565,000
established 1898

Etna Green, Town of
Box 183
Etna Green, Ind. 46524
(219) 858-9321
Loren L. Melton, Superintendent
customers: 339
1990 MWh generated: 0
1990 MWh purchased: 3,470
1990 MWh sold: 3,032
1990 revenues: $239,000
established 1890

Ferdinand, Town of
123 W. Fifth St., Box 7
Ferdinand, Ind. 47532
(812) 367-2280
James R. Meyer, Superintendent
customers: 718
1990 MWh generated: 0
1990 MWh purchased: 20,178
1990 MWh sold: 18,859
1990 revenues: $1,244,000
established 1922

Flora, Town of*
27 W. Main St.
Flora, Ind. 46929
(219) 967-4844
Charles H. Everett, Superintendent
customers: 1,167
1990 MWh generated: 0
1990 MWh purchased: 20,979
1990 MWh sold: 18,987
1990 revenues: $1,076,000
established 1946

Frankfort, City of*
1000 Washington Ave., Box 458
Frankfort, Ind. 46041
(317) 654-4424
Tom Donoho, Superintendent
customers: 8,560
1990 MWh generated: 0
1990 MWh purchased: 249,790
1990 MWh sold: 236,835
1990 revenues: $11,534,000
established 1902

Frankton Municipal Light & Water Co.*
105 Church St., Box 286
Frankton, Ind. 46044
(317) 754-7285
Donald E. Cook, Superintendent
customers: 1,005
1990 MWh generated: 0
1990 MWh purchased: 15,069
1990 MWh sold: 14,086
1990 revenues: $851,000
established 1900

Garrett, City of
S. Randolph St., Box 120
Garrett, Ind. 46738
(219) 357-4400
David N. Conkle, Superintendent
customers: 2,753
1990 MWh generated: 0
1990 MWh purchased: 49,800
1990 MWh sold: 47,359
1990 revenues: $2,438,000
established 1896

Gas City, City of*
200 E. No. A St.
Gas City, Ind. 46933
(317) 674-6995
Joseph Mitsch, Superintendent
customers: 2,652
1990 MWh generated: 0
1990 MWh purchased: 46,500
1990 MWh sold: 43,500
1990 revenues: $2,437,000

Greendale, Town of*
510 Ridge Ave.
Lawrenceburg, Ind. 47025
(812) 537-2125
F. R. Rudolph, Manager
customers: 1,900
1990 MWh generated: 0
1990 MWh purchased: 78,101
1990 MWh sold: 76,038
1990 revenues: $3,450,000
established 1934

Greenfield, City of*
333 S. Franklin St.
Greenfield, Ind. 46140
(317) 462-8522
Fred Sauterteig, Superintendent
customers: 5,363
1990 MWh generated: 0
1990 MWh purchased: 142,746
1990 MWh sold: 135,678
1990 revenues: $7,033,000
established 1892

Hagerstown, Town of
Town Hall, 49 E. College St.
Hagerstown, Ind. 47346
(317) 489-5132
Carl Allen, Director of Municipal Operations
customers: 1,304
1990 MWh generated: 0
1990 MWh purchased: 20,566
1990 MWh sold: 18,558
1990 revenues: $1,117,000
established 1923

Huntingburg, City of*
511 Fourth St.
Huntingburg, Ind. 47542
(812) 683-2327
Loma Wm. Hartke, Superintendent
customers: 2,814
1990 MWh generated: 0
1990 MWh purchased: 65,844
1990 MWh sold: 60,461
1990 revenues: $4,176,000

Indiana Municipal Power Agency*
11610 N. College Ave.
Carmel, Ind. 46032
(317) 573-9955
Raj Rao, General Manager
customers: wholesale only
nameplate capacity (kW): unavailable
1990 MWh generated: 717,592
1990 MWh purchased: 2,945,432
1990 MWh sold: wholesale: 3,570,056
1990 revenues: wholesale: $143,938,000
established 1980
(*see expanded joint action agency section, page 140*)

Jamestown, Town of
Box 165
Jamestown, Ind. 46147
(317) 676-6331
Wayne D. Henry, Superintendent
customers: 471
1990 MWh generated: 0
1990 MWh purchased: 6,958
1990 MWh sold: 6,410
1990 revenues: $344,000
established 1917

Jasper, City of
606 Main St., Box 150
Jasper, Ind. 47546
(812) 482-6881
Gordon Houchin, Manager
customers: 5,306
nameplate capacity (kW): coal: 14,500
1990 MWh generated: 91,000
1990 MWh purchased: 140,000
1990 MWh sold: 223,000
1990 revenues: $11,589,000
established 1904

Kingsford Heights, Town of
504 Grayton Road
Kingsford Heights, Ind. 46346
(219) 393-3309
Superintendent
customers: 534
1990 MWh generated: 0
1990 MWh purchased: 4,656
1990 MWh sold: 4,369
1990 revenues: $270,000
established 1964

Knightstown, Town of
26 S. Washington St.
Knightstown, Ind. 46148
(317) 345-5977
William Morgan, Works Manager
customers: 1,596
1990 MWh generated: 0
1990 MWh purchased: 19,296
1990 MWh sold: 17,142
1990 revenues: $1,058,000
established 1894

Ladoga Light & Power*
121 E. Main St., Box 187
Ladoga, Ind. 47954
(317) 942-2531
Billy J. McIntyre, Superintendent
customers: 601
1990 MWh generated: 0
1990 MWh purchased: 7,932
1990 MWh sold: 6,997
1990 revenues: $436,000
established 1921

Lawrenceburg, City of*
405 Main St., Box 112
Lawrenceburg, Ind. 47025
(812) 537-2420
Roland R. Horney, Director of Utilities
customers: 2,700
1990 MWh generated: 0
1990 MWh purchased: 77,023
1990 MWh sold: 76,380
1990 revenues: $4,068,000

INDIANA *(continued)*

Lebanon, City of†*
201 E. Main St., Box 479
Lebanon, Ind. 46052
(317) 482-5100
James B Nelson, Manager
customers: 5,766
1990 MWh generated: 0
1990 MWh purchased: 120,060
1990 MWh sold: 117,425
1990 revenues: $6,133,000
established 1942

Lewisville, City of
Box 288
Lewisville, Ind. 47352
(317) 987-7979
Jim Thompson, Superintendent
customers: 234
1990 MWh generated: 0
1990 MWh purchased: 1,790
1990 MWh sold: 1,620
1990 revenues: $115,000

Linton, City of†*
49 N.W. A St.
Linton, Ind. 47441
(812) 847-4971
Brent Slover, Superintendent of Utilities
customers: 3,827
1990 MWh generated: 0
1990 MWh purchased: 56,904
1990 MWh sold: 51,914
1990 revenues: $2,909,000
established 1912

Logansport, City of*
Sixth & Broadway Sts.
Logansport, Ind. 46947
(219) 753-6231
Klaus Hemberger, Superintendent
customers: 12,306
nameplate capacity (kW): coal: 43,000; gas: 18,000
1990 MWh generated: 89,887
1990 MWh purchased: 201,797
1990 MWh sold: 278,567
1990 revenues: $16,826,000

Middletown, Town of*
102 N. Fifth St.
Middletown, Ind. 47356
(317) 354-2911
Richard Westrater, Superintendent
customers: 1,342
1990 MWh generated: 0
1990 MWh purchased: 17,064
1990 MWh sold: 16,237
1990 revenues: $929,000
established 1911

Mishawaka, City of*
126 N. Church St.
Mishawaka, Ind. 46544
(219) 258-1630
Philip R. Miller, General Manager
customers: 21,781
1990 MWh generated: 0
1990 MWh purchased: 393,432
1990 MWh sold: 366,788
1990 revenues: $21,655,000
established 1904

Montezuma, Town of
1235 N. Jackson St.
Montezuma, Ind. 47862
(317) 245-2759
Robert Allen, Superintendent
customers: 674
1990 MWh generated: 0
1990 MWh purchased: 7,946
1990 MWh sold: 7,677
1990 revenues: $575,000

New Carlisle, Town of
113 S. Arch St.
New Carlisle, Ind. 46552
(219) 654-7554
Joe Knowlton, Electrical Superintendent
customers: 683
1990 MWh generated: 0
1990 MWh purchased: 8,536
1990 MWh sold: 7,828
1990 revenues: $597,000
established 1905

New Ross, City of
Box 156
New Ross, Ind. 47968
(317) 723-1154
Rebecca L. Lowe, Clerk/Treasurer
customers: 207
1990 MWh generated: 0
1990 MWh purchased: 2,323
1990 MWh sold: 2,191
1990 revenues: $130,000

Paoli Water & Light Department*
Municipal Building
Paoli, Ind. 47454
(812) 723-2739
Herbert Bostock, Superintendent
customers: 2,502
1990 MWh generated: 0
1990 MWh purchased: 32,499
1990 MWh sold: 29,214
1990 revenues: $2,039,000

Pendleton, Town of*
119 W. State St.
Pendleton, Ind. 46064
(317) 778-2173
Jack Guard, Town Manager
customers: 1,608
1990 MWh generated: 0
1990 MWh purchased: 27,715
1990 MWh sold: 26,354
1990 revenues: $1,602,000
established 1911

Peru Utilities*
335 E. Canal St., Box 67
Peru, Ind. 46970
(317) 473-6681
Dwight D. Langer, General Manager
customers: 10,273
nameplate capacity (kW): coal: 32,000
1990 MWh generated: 7,983
1990 MWh purchased: 176,732
1990 MWh sold: 172,798
1990 revenues: $8,050,000
established 1903

Pittsboro, Town of
Box 185
Pittsboro, Ind. 46167
(317) 892-3326
Charles Waters, Superintendent
customers: 439
1990 MWh generated: 0
1990 MWh purchased: 4,954
1990 MWh sold: 4,617
1990 revenues: $312,000

Rensselaer, City of†*
122 S. Van Rensselaer St.
Rensselaer, Ind. 47978
(219) 866-8475
Timothy W. Rauch, City Engineer
customers: 2,714
nameplate capacity (kW): oil: 14,120
1990 MWh generated: 105
1990 MWh purchased: 66,355
1990 MWh sold: 62,714
1990 revenues: $3,675,000
established 1896

Richmond Power and Light†*
2000 U.S. 27 S., Box 908
Richmond, Ind. 47375-0908
(317) 973-7200
Irving A. Huffman, General Manager
customers: 20,499
nameplate capacity (kW): coal: 93,000
1990 MWh generated: 470,668
1990 MWh purchased: 214,860
1990 MWh sold: 658,675
1990 revenues: $33,950,000
established 1902

Rising Sun Municipal Utility†*
301 S. Poplar St., Box 38
Rising Sun, Ind. 47040
(812) 438-3616
Wayne L. Clements, Superintendent
customers: 1,352
1990 MWh generated: 0
1990 MWh purchased: 20,202
1990 MWh sold: 18,640
1990 revenues: $1,156,000
established 1939

Rockville, Town of
103 W. High St., Box 143
Rockville, Ind. 47872
(317) 569-3569
Ray Shelton, Superintendent
customers: 1,822
1990 MWh generated: 0
1990 MWh purchased: 23,976
1990 MWh sold: 21,622
1990 revenues: $1,381,000

Scottsburg, City of*
2 E. McClain Ave.
Scottsburg, Ind. 47170
(812) 752-4343
James Satterly, Superintendent
customers: 2,831
1990 MWh generated: 0
1990 MWh purchased: 90,137
1990 MWh sold: 84,159
1990 revenues: $4,964,000
established 1902

South Whitley, Town of*
118 E. Front St.
South Whitley, Ind. 46787
(219) 723-5312
Robert Kneller, Superintendent
customers: 981
1990 MWh generated: 0
1990 MWh purchased: 17,738
1990 MWh sold: 16,561
1990 revenues: $974,000
established 1895

Spiceland, City of
130 E. Main St., Box 386
Spiceland, Ind. 47385
(317) 987-1211
Patsy M. Dobbs, Clerk/Treasurer
customers: 565
1990 MWh generated: 0
1990 MWh purchased: 5,680
1990 MWh sold: 5,489
1990 revenues: $317,000
established 1917

Straughn, Town of
Box 427
Straughn, Ind. 47387
(317) 332-2828
Eldon Sons, Superintendent
customers: 172
1990 MWh generated: 0
1990 MWh purchased: 1,226
1990 MWh sold: 1,063
1990 revenues: $74,000

Tell City, City of†*
700 Main St., Box 9
Tell City, Ind. 47586
(812) 547-3411
Jack M. Joyce, Superintendent
customers: 3,916
1990 MWh generated: 0
1990 MWh purchased: 121,824
1990 MWh sold: retail: 88,374
wholesale: 28,954
1990 revenues: retail: $5,395,000
wholesale: $1,509,000
established 1941

Thorntown, City of
109 W. Main St.
Thorntown, Ind. 46071
(317) 436-2627
Jack Hutchens, Superintendent
customers: 767
1990 MWh generated: 0
1990 MWh purchased: 11,000
1990 MWh sold: 10,500
1990 revenues: $584,000
established 1951

Tipton Municipal Electric Utility†*
113 Court St., Box 288
Tipton, Ind. 46072
(317) 675-7629
Noel C. Olse, Utility Manager
customers: 3,792
1990 MWh generated: 0
1990 MWh purchased: 84,739
1990 MWh sold: 81,078
1990 revenues: $4,183,000
established 1901

Troy, City of
Box 57
Troy, Ind. 47588
(812) 547-7501
Earl Henderson, Superintendent
customers: 327
1990 MWh generated: 0
1990 MWh purchased: 9,600
1990 MWh sold: 9,595
1990 revenues: $662,000
established 1941

Veedersburg, Town of
118 Railroad Ave.
Veedersburg, Ind. 47987
(317) 294-2728
Eugene Fuller, Superintendent
customers: 1,083
1990 MWh generated: 0
1990 MWh purchased: 13,000
1990 MWh sold: 12,097
1990 revenues: $702,000
established 1898

Walkerton, City of
510 Roosevelt Road
Walkerton, Ind. 46574
(219) 586-3711
Jollie Back, Superintendent
customers: 1,254
1990 MWh generated: 0
1990 MWh purchased: 23,167
1990 MWh sold: 21,066
1990 revenues: $1,394,000
established 1906

Warren Municipal Electric Utility
132 Wayne St.
Warren, Ind. 46792
(219) 375-2656
Charles Booher, Superintendent
customers: 698
1990 MWh generated: 0
1990 MWh purchased: 13,362
1990 MWh sold: 12,059
1990 revenues: $756,000

Washington, City of*
City Utility Building, Box 800
Washington, Ind. 47501
(812) 254-5171
Jerry Boger, Superintendent
customers: 6,851
1990 MWh generated: 0
1990 MWh purchased: 148,297

---

* Member, American Public Power Association
† Member, Demonstration of Energy-Efficient Developments Program

INDIANA *(continued)*

1990 MWh sold: 138,155
1990 revenues: $7,046,000
established 1926

Waynetown, City of*
Washington St.
Waynetown, Ind. 47990
(317) 234-2154
Richard Peterman, Superintendent
customers: 503
1990 MWh generated: 0
1990 MWh purchased: 4,705
1990 MWh sold: 4,420
1990 revenues: $288,000

Williamsport, City of
29 N. Monroe St.
Williamsport, Ind. 47993
(317) 762-2154
William Lucas, Clerk/Treasurer
customers: 810
1990 MWh generated: 0
1990 MWh purchased: 13,056
1990 MWh sold: 12,364
1990 revenues: $776,000
established 1899

Winamac, Town of†*
120 W. Main St.
Winamac, Ind. 46996
(219) 946-3451
Kenneth McFarland, Manager
customers: 1,849
1990 MWh generated: 0
1990 MWh purchased: 56,795
1990 MWh sold: 53,894
1990 revenues: $3,220,000
established 1895

Iowa

Afton, City of
101 W. Kansas St.
Afton, Iowa 50830
(515) 347-5578
Robert Fisher, Electrical Superintendent
customers: 438
1990 MWh generated: 0
1990 MWh purchased: 5,916
1990 MWh sold: 4,733
1990 revenues: $365,000

Akron, City of†*
Box 85
Akron, Iowa 51001
(712) 568-2041
Lloyd Eichacker, Director of Public Works
customers: 803
1990 MWh generated: 0
1990 MWh purchased: 11,450
1990 MWh sold: 10,066
1990 revenues: $493,000
established 1921

Algona Municipal Utilities*
104 W. Call St., Box 10
Algona, Iowa 50511
(515) 295-3584
Nicholas R. Scholer, General Manager
customers: 3,509
nameplate capacity (kW): coal: 18,750; oil: 13,400
1990 MWh generated: 124,290
1990 MWh purchased: 8,612
1990 MWh sold: retail: 81,726
wholesale: 48,547
1990 revenues: retail: $4,442,000
wholesale: $518,000
established 1898

Alta, City of†*
223 Main St.
Alta, Iowa 51002
(712) 284-1122
Ronald L. Deiber, Superintendent
customers: 908
nameplate capacity (kW): oil: 1,300
1990 MWh generated: 0
1990 MWh purchased: 12,816
1990 MWh sold: 10,302
1990 revenues: $512,000
established 1895

Alta Vista, City of
201 Main St.
Alta Vista, Iowa 50603
(515) 364-6732
Marvin Nielson, Superintendent
customers: 251
1990 MWh generated: 0
1990 MWh purchased: 1,683
1990 MWh sold: 1,643
1990 revenues: $111,000

Alton Municipal Light & Power†*
905 Third Avenue, Box J
Alton, Iowa 51003
(712) 756-4314
Jeff Becthold, Public Works Director
customers: 529
1990 MWh generated: 0
1990 MWh purchased: 7,396
1990 MWh sold: 6,514
1990 revenues: $339,000
established 1968

Ames, City of†*
502 Carroll Ave.
Ames, Iowa 50010
(515) 239-5171
Merlin C. Hove, Director
customers: 16,246
nameplate capacity (kW): coal: 98,000; oil: 23,000
1990 MWh generated: 280,360
1990 MWh purchased: 0
1990 MWh sold: retail: 327,508
wholesale: 1,084
1990 revenues: retail: $18,714,000
wholesale: $20,000
established 1896

Anita Municipal Utilities
828 Main St., Box 426
Anita, Iowa 50020
(712) 762-3845
Mark Schultz, Superintendent
customers: 614
nameplate capacity (kW): oil: 747
1990 MWh generated: 14
1990 MWh purchased: 8,302
1990 MWh sold. 7,323
1990 revenues: $282,000
established 1939

Anthon, City of
301 E. Main
Anthon, Iowa 51004
(712) 373-5218
Robert Kindig, Manager
customers: 384
1990 MWh generated: 0
1990 MWh purchased: 5,040
1990 MWh sold: 4,798
1990 revenues: $339,000
established 1976

Aplington, City of
927 Parrot St.
Aplington, Iowa 50604
(319) 347-2425
Timothy Ubben, Superintendent
customers: 498
1990 MWh generated: 0
1990 MWh purchased: 5,557
1990 MWh sold: 4,907
1990 revenues: $341,000

Atlantic Municipal Utilities*
15 W. Third St., Box 517
Atlantic, Iowa 50022
(712) 243-1395
Richard J. Stevens, General Manager
customers: 4,365
nameplate capacity (kW): coal: 18,150; gas: 9,200
1990 MWh generated: 74,065
1990 MWh purchased: 39,868
1990 MWh sold: retail: 80,032
wholesale: 26,514
1990 revenues: retail: $3,858,000
wholesale: $325,000
established 1890

Auburn, City of
Box 238
Auburn, Iowa 51433
(712) 688-2264
Warren Presley, Superintendent
customers: 172
1990 MWh generated: 0
1990 MWh purchased: 1,668
1990 MWh sold: 1,417
1990 revenues: $117,000

Aurelia, City of
235 Main St.
Aurelia, Iowa 51005
(712) 434-2025
Edmund Radke, Chairman, Board of Trustees
customers: 562
1990 MWh generated: 0
1990 MWh purchased: 7,048
1990 MWh sold: 6,724
1990 revenues: $464,000
established 1974

Bancroft Municipal Utility
108 N. Portland
Bancroft, Iowa 50517
(515) 885-2382
Tracy S. Elliott, Superintendent
customers: 684
nameplate capacity (kW): oil: 1,550
1990 MWh generated: 9,681
1990 MWh purchased: 0
1990 MWh sold: 8,498
1990 revenues: $502,000
established 1939

Bellevue, City of
900 N. Riverview
Bellevue, Iowa 52031
(319) 872-3357
Ray Beschen, Superintendent
customers: 1,445
nameplate capacity (kW): oil: 5,320
1990 MWh generated: 211
1990 MWh purchased: 15,177
1990 MWh sold: 14,160
1990 revenues: $1,130,000
established 1896

Bloomfield, City of
111 W. Franklin St.
Bloomfield, Iowa 52537
(515) 664-2260
Gary E. Stuva, Public Works Director
customers: 1,390
nameplate capacity (kW): gas: 8,580
1990 MWh generated: 114
1990 MWh purchased: 28,041
1990 MWh sold: 23,506
1990 revenues: $1,196,000
established 1911

Breda Municipal Utilities
118 Main St.
Breda, Iowa 51436
(712) 673-4221
James Ulveling, Manager
customers: 257
1990 MWh generated: 0
1990 MWh purchased: 4,407
1990 MWh sold: 3,917
1990 revenues: $197,000

Brooklyn, City of
207 Front St.
Brooklyn, Iowa 52211
(515) 522-9292
Dale Hawkins, Manager
customers: 812
nameplate capacity (kW): gas: 1,724; oil: 700
1990 MWh generated: 108
1990 MWh purchased: 10,324
1990 MWh sold: 9,776
1990 revenues: $589,000
established 1940

Buffalo, City of
409 Third St.
Buffalo, Iowa 52728
(319) 381-2226
Ralph Jewett, Public Works Director
customers: 507
1990 MWh generated: 0
1990 MWh purchased: 3,838
1990 MWh sold: 3,305
1990 revenues: $279,000

Burt, City of
119 Walnut St., Box 197
Burt, Iowa 50522
(515) 924-3618
Craig W. Giddings, Utility Superintendent
customers: 305
1990 MWh generated: 0
1990 MWh purchased: 3,600
1990 MWh sold: 3,400
1990 revenues: $225,000
established 1920

Callender, City of
730 Thomas St.
Callender, Iowa 50523
(515) 548-3859
Donna Eastman, City Clerk
customers: 202
1990 MWh generated: 0
1990 MWh purchased: 1,850
1990 MWh sold: 1,744
1990 revenues: $126,000
established 1965

Carlisle, City of*
115 School St.
Carlisle, Iowa 50047
(515) 989-0840
Bruce Johnson, Electric Supervisor
customers: 1,412
1990 MWh generated: 0
1990 MWh purchased: 17,152
1990 MWh sold: 15,836
1990 revenues: $1,033,000
established 1931

Cascade Municipal Utilities
201 Pierce St. S.W., Box 410
Cascade, Iowa 52033
(319) 852-3614
Fred A. Kremer, General Manager
customers: 908
nameplate capacity (kW): oil: 3,557
1990 MWh generated: 158
1990 MWh purchased: 12,565
1990 MWh sold: 12,086
1990 revenues: $791,000
established 1940

Cedar Falls Utilities†*
612 E. 12th St., Box 769
Cedar Falls, Iowa 50613
(319) 266-1761
Dean Crowe, General Manager
customers: 14,136
nameplate capacity (kW): coal: 90,000; oil: 25,000
1990 MWh generated: 260,515
1990 MWh purchased: 0
1990 MWh sold: 287,904

---

* Member, American Public Power Association
† Member, Demonstration of Energy-Efficient Developments Program

1990 revenues: $12,650,000
established 1913

Coggon Municipal Light Plant
131 W. Main
Coggon, Iowa 52218
(319) 435-2436
Robert L. Farley, Superintendent
customers: 317
nameplate capacity (kW): oil: 1,740
1990 MWh generated: 37
1990 MWh purchased: 3,267
1990 MWh sold: 2,872
1990 revenues: $283,000
established 1927

Coon Rapids Municipal Utilities†*
123 Third Ave., Box 207
Coon Rapids, Iowa 50058
(712) 684-2225
Eugene P. Smith, Manager
customers: 773
nameplate capacity (kW): oil: 3,950
1990 MWh generated: 20,375
1990 MWh purchased: 16,777
1990 MWh sold: retail: 18,544
wholesale: 14,594
1990 revenues: retail: $821,000
wholesale: $403,000
established 1936

Corning, City of†*
501 Benton Ave.
Corning, Iowa 50841
(515) 322-3920
Dean R. Davis, Manager
customers: 1,130
nameplate capacity (kW): oil: 6,360
1990 MWh generated: 22
1990 MWh purchased: 17,424
1990 MWh sold: 15,006
1990 revenues: $538,000
established 1936

Corwith, City of
404 Main St.
Corwith, Iowa 50430
(515) 583-2342
Tim Berhow, Public Works Administrator
customers: 208
1990 MWh generated: 0
1990 MWh purchased: 2,391
1990 MWh sold: 1,966
1990 revenues: $177,000

Danville, City of
105 W. Shepherd St., Box 265
Danville, Iowa 52623
(319) 392-4685
Allen W. Schillie, Superintendent
customers: 403
1990 MWh generated: 0
1990 MWh purchased: 5,153
1990 MWh sold: 4,583
1990 revenues: $262,000
established 1915

Dayton Light & Power
101 S. Main St., Box 45
Dayton, Iowa 50530-0045
(515) 547-2711
Shirley B. Miller, City Clerk
customers: 467
nameplate capacity (kW): oil: 1,383
1990 MWh generated: 12
1990 MWh purchased: 5,099
1990 MWh sold: 4,239
1990 revenues: $318,000
established 1938

Denison Municipal Utilities†*
16th and 5th Ave. So., Box 518
Denison, Iowa 51442
(712) 263-4154
Brad Roos, General Manager
customers: 3,180
nameplate capacity (kW): gas: 1,400
1990 MWh generated: 0
1990 MWh purchased: 114,009
1990 MWh sold: 108,319
1990 revenues: $3,670,000
established 1914

Denver, City of
107 N. State St.
Denver, Iowa 50622
(319) 984-5642
Larry Zars, Superintendent
customers: 714
1990 MWh generated: 0
1990 MWh purchased: 9,544
1990 MWh sold: 8,632
1990 revenues: $582,000

Dike, City of
540 Main St.
Dike, Iowa 50624
(319) 989-2291
Donald Knudsen, Mayor
customers: 406
1990 MWh generated: 0
1990 MWh purchased: 5,306
1990 MWh sold: 4,803
1990 revenues: $346,000

Durant Municipal Electric Plant*
601 4th St.
Durant, Iowa 52747
(319) 785-6213
Greg A. Christensen, Superintendent
customers: 870
nameplate capacity (kW): oil: 3,788
1990 MWh generated: -338
1990 MWh purchased: 12,840
1990 MWh sold: 11,886
1990 revenues: $773,000
established 1942

Dysart, City of
436 Main St.
Dysart, Iowa 52224
(319) 476-5690
Harold M. Langbehn, Superintendent
customers: 750
1990 MWh generated: 0
1990 MWh purchased: 8,627
1990 MWh sold: 6,767
1990 revenues: $501,000

Earlville Light & Water System
Box 67
Earlville, Iowa 52041
(319) 923-3365
Vincent Herman, General Manager
customers: 358
1990 MWh generated: 0
1990 MWh purchased: 3,247
1990 MWh sold: 3,247
1990 revenues: $224,000
established 1916

Eldridge, City of
305 N. Third St.
Eldridge, Iowa 52748
(319) 285-4841
Ronald McGill, General Utility Manager
customers: 1,253
1990 MWh generated: 0
1990 MWh purchased: 19,771
1990 MWh sold: 17,516
1990 revenues: $1,446,000
established 1900

Ellsworth, City of
1551 Dewitt St.
Ellsworth, Iowa 50075
(515) 836-4751
Danny R. Anderson, Superintendent
customers: 272
1990 MWh generated: 0
1990 MWh purchased: 5,531
1990 MWh sold: 5,350
1990 revenues: $403,000
established 1910

Estherville, City of
2 N. Seventh St.
Estherville, Iowa 51334
(712) 362-7771
Steven D. Woodley, City Administrator
customers: 3,150
nameplate capacity (kW): oil: 17,600
1990 MWh generated: 144
1990 MWh purchased: 45,882
1990 MWh sold: 42,316
1990 revenues: $2,390,000
established 1894

Fairbank, City of
116 E. Main St., Box 447
Fairbank, Iowa 50629
(319) 635-2869
Ted Vorwald, Superintendent
customers: 505
1990 MWh generated: 0
1990 MWh purchased: 5,028
1990 MWh sold: 5,028
1990 revenues: $300,000
established 1920

Farnhamville, City of
Box 97
Farnhamville, Iowa 50538
(515) 544-3361
Alan Jorgensen, Superintendent
customers: 257
1990 MWh generated: 0
1990 MWh purchased: 4,331
1990 MWh sold: 3,642
1990 revenues: $253,000
established 1916

Fonda, City of
Box 367
Fonda, Iowa 50540
(712) 288-6618
Phyllis Menke, Clerk
customers: 390
1990 MWh generated: 0
1990 MWh purchased: 5,018
1990 MWh sold: 4,193
1990 revenues: $303,000

Fontanelle, City of†*
313 Washington St.
Fontanelle, Iowa 50846
(515) 745-3961
Delmer D. Miller, Superintendent
customers: 445
1990 MWh generated: 0
1990 MWh purchased: 6,358
1990 MWh sold: 5,297
1990 revenues: $229,000
established 1914

Forest City, City of†*
Box 346
Forest City, Iowa 50436
(515) 582-2362
Forrest A. Buffington, Electric Superintendent
customers: 2,122
nameplate capacity (kW): oil: 14,525
1990 MWh generated: 60
1990 MWh purchased: 61,040
1990 MWh sold: 58,940
1990 revenues: $3,054,000
established 1939

Fredericksburg, City of
151 W. Main St.
Fredericksburg, Iowa 50630
(319) 237-5725
Norb Gansen, Superintendent
customers: 497
1990 MWh generated: 0
1990 MWh purchased: 32,113
1990 MWh sold: 31,293
1990 revenues: $1,506,000
established 1915

Glidden, City of
108 Idaho St., Box 349
Glidden, Iowa 51443
(712) 659-3010
Colleen Berner, City Clerk
customers: 552
1990 MWh generated: 0
1990 MWh purchased: 7,804
1990 MWh sold: 7,157
1990 revenues: $294,000
established 1911

Gowrie Municipal Utilities
1102 Main St.
Gowrie, Iowa 50543
(515) 352-3065
Donald G. Borgen, Superintendent
customers: 610
nameplate capacity (kW): oil: 3,600
1990 MWh generated: 91
1990 MWh purchased: 6,896
1990 MWh sold: 6,155
1990 revenues: $430,000
established 1934

Graettinger, City of
Box 178
Graettinger, Iowa 51342
(712) 859-3844
Steve Helmke, Superintendent
customers: 477
nameplate capacity (kW): oil: 700
1990 MWh generated: 0
1990 MWh purchased: 7,179
1990 MWh sold: 6,549
1990 revenues: $282,000
established 1941

Grafton, City of
Box 263
Grafton, Iowa 50440
(515) 748-2735
Chloe Ann Stumo, City Clerk
customers: 140
1990 MWh generated: 0
1990 MWh purchased: 1,800
1990 MWh sold: 1,637
1990 revenues: $101,000

Grand Junction, City of
305 11th St.
Grand Junction, Iowa 50107
(515) 738-2285
Eleanor Krieger, Business Manager
customers: 510
nameplate capacity (kW): oil: 560
1990 MWh generated: 0
1990 MWh purchased: 4,671
1990 MWh sold: 4,092
1990 revenues: $378,000
established 1932

Greenfield Municipal Utilities*
Box 95
Greenfield, Iowa 50849
(515) 743-2914
Duane Armstead, Superintendent
customers: 1,257
nameplate capacity (kW): oil: 6,100
1990 MWh generated: 198
1990 MWh purchased: 21,128
1990 MWh sold: 19,391
1990 revenues: $1,246,000
established 1890

Grundy Center, City of†*
506 Seventh St., Box 307
Grundy Center, Iowa 50638
(319) 824-5207
Edward R. Ayers, General Manager
customers: 1,401
nameplate capacity (kW): oil: 5,750
1990 MWh generated: 156
1990 MWh purchased: 24,497
1990 MWh sold: 22,231
1990 revenues: $1,346,000
established 1941

IOWA *(continued)*

Guttenberg Electric
502 S. First St., Box 580
Guttenberg, Iowa 52052
(319) 252-1161
Rudy Waterman, Electrical
Superintendent
customers: 1,251
1990 MWh generated: 0
1990 MWh purchased: 15,731
1990 MWh sold: 14,693
1990 revenues: $950,000

Harlan, City of*
Box 71
Harlan, Iowa 51537
(712) 755-5182
Jack T. VanDenBerg,
General Manager
customers: 2,722
nameplate capacity (kW): unavailable
1990 MWh generated: 22,887
1990 MWh purchased: 33,765
1990 MWh sold: retail: 46,093
wholesale: 8,551
1990 revenues: retail: $2,651,000
wholesale: $108,000
established 1891

Hartley, City of†*
169 S. Central Ave.
Hartley, Iowa 51346
(712) 728-2240
Dean E. Meyer, Superintendent of
Public Works
customers: 898
nameplate capacity (kW): oil: 1,700
1990 MWh generated: 0
1990 MWh purchased: 19,405
1990 MWh sold: 16,654
1990 revenues: $726,000
established 1908

Hawarden Municipal Utilities†*
700 Seventh St.
Hawarden, Iowa 51023
(712) 552-2565
Bob Borchers, Director of Public
Works
customers: 1,253
nameplate capacity (kW): oil: 2,640
1990 MWh generated: 0
1990 MWh purchased: 25,045
1990 MWh sold: 23,089
1990 revenues: $936,000
established 1894

Hinton, City of
205 W. Main St.
Hinton, Iowa 51024
(712) 947-4732
Donald Krause, Mayor
customers: 257
1990 MWh generated: 0
1990 MWh purchased: 4,098
1990 MWh sold: 3,895
1990 revenues: $272,000
established 1910

Hopkinton, City of*
Box 129
Hopkinton, Iowa 52237-0129
(319) 926-2480
Norman W. Parsons, Superintendent
customers: 381
nameplate capacity (kW): oil: 2,886
1990 MWh generated: 51
1990 MWh purchased: 11,011
1990 MWh sold: 10,530
1990 revenues: $797,000
established 1937

Hudson, City of
329 Fifth St.
Hudson, Iowa 50643
(319) 988-3600
Rick Anderf, Superintendent
customers: 787
1990 MWh generated: 0
1990 MWh purchased: 14,672
1990 MWh sold: 13,[illegible]
1990 revenues: $938,000
established 1910

Independence, City of*
711 Seventh Ave. N.E.
Independence, Iowa 50644
(319) 334-3880
Jerry L. Barske, Manager
customers: 3,223
nameplate capacity (kW): oil: 14,675
1990 MWh generated: 260
1990 MWh purchased: 51,711
1990 MWh sold: 48,820
1990 revenues: $3,160,000
established 1920

Indianola Municipal Electric & Water Utility†*
111 S. Buxton, Box 445
Indianola, Iowa 50125
(515) 961-9444
Colin Whitley, General Manager
customers: 4,911
nameplate capacity (kW): oil: 34,500
1990 MWh generated: 551
1990 MWh purchased: 79,803
1990 MWh sold: 70,345
1990 revenues: $3,609,000
established 1890

Keosauqua, City of
Box 216
Keosauqua, Iowa 52565
(319) 293-3406
Ray V. Charbonneau, Superintendent
customers: 543
1990 MWh generated: 0
1990 MWh purchased: 9,575
1990 MWh sold: 8,501
1990 revenues: $533,000

Kimballton, City of†*
Kimballton, Iowa 51543
(712) 773-3451
Jim McClain, Utilities Superintendent
customers: 201
nameplate capacity (kW): oil: 450
1990 MWh generated: 0
1990 MWh purchased: 2,221
1990 MWh sold: 1,879
1990 revenues: $105,000
established 1921

La Porte Utilities
200 Main St.
La Porte City, Iowa 50651
(319) 342-3139
William P. Starr, Operations Manager
customers: 1,075
nameplate capacity (kW): oil: 2,800
1990 MWh generated: -6
1990 MWh purchased: 13,185
1990 MWh sold: 11,522
1990 revenues: $677,000
established 1935

Lake Mills, City of*
201 S. Mill
Lake Mills, Iowa 50450
(515) 592-2441
David Low, Director of Utilities
customers: 1,195
nameplate capacity (kW): oil: 11,600
1990 MWh generated: 173
1990 MWh purchased: 27,029
1990 MWh sold: 25,650
1990 revenues: $1,589,000
established 1932

Lake Park, City of†*
204 Market St.
Lake Park, Iowa 51347
(712) 832-3667
Douglas S. Delaney, Electric
Superintendent
customers: 536
nameplate capacity (kW): oil: 1,700
1990 MWh generated: 3
1990 MWh purchased: 7,733
1990 MWh sold: 6,843
1990 revenues: $325,000
established 1947

Lake View, City of
305 Main St.
Lake View, Iowa 51450
(712) 657-2122
Bill Leners, Electric Superintendent
customers: 1,317
1990 MWh generated: 0
1990 MWh purchased: 17,000
1990 MWh sold: 16,000
1990 revenues: $6[illegible]4,000
established 1915

Lamoni Municipal Utilities†*
111 S. Chestnut St.
Lamoni, Iowa 5014[illegible]
(515) 784-6911
Robert A. Moore, Superintendent
customers: 1,042
nameplate capacity (kW): oil: 5,203
1990 MWh generated: 260
1990 MWh purchased: 17,009
1990 MWh sold: 15,721
1990 revenues: $1,077,000
established 1934

Larchwood, City of
Box 216
Larchwood, Iowa 51241
(712) 477-2366
LaVonne Reinke, City Clerk
customers: 328
1990 MWh generated: 0
1990 MWh purchased: 4,349
1990 MWh sold: 3,853
1990 revenues: $264,000

Laurens, City of*
272 N. Third
Laurens, Iowa 50554
(712) 845-4610
Michael D. Sangwin, Superintendent
customers: 884
nameplate capacity (kW): oil: 1,600
1990 MWh generated: 24,679
1990 MWh purchased: 14,790
1990 MWh sold: retail: 20,330
wholesale: 17,635
1990 revenues: retail: $749,000
wholesale: $358,000
established 1949

Lawler, City of
Box 215
Lawler, Iowa 52154
(319) 238-3614
Sue Cutsforth, City Clerk
customers: 280
1990 MWh generated: 0
1990 MWh purchased: 2,910
1990 MWh sold: 2,463
1990 revenues: $159,000

Lehigh, City of
241 Elm St., Box 317
Lehigh, Iowa 50557
(515) 359-2311
Anthony Goodpaster, Superintendent
customers: 289
1990 MWh generated: 0
1990 MWh purchased: 2,217
1990 MWh sold: 1,949
1990 revenues: $165,000

Lenox, City of†*
Box 96
Lenox, Iowa 50851
(515) 333-2550
David D. Ferris, Superintendent of
Utilities
customers: 773
nameplate capacity (kW): oil: 2,300
1990 MWh generated: 97
1990 MWh purchased: 15,015
1990 MWh sold: 14,002
1990 revenues: $503,000
established 1931

Livermore, City of
501 4th St., Box 16
Livermore, Iowa 50558
(515) 379-1074
Joseph Collins, Superintendent
customers: 254
1990 MWh generated: 0
1990 MWh purchased: 2,685
1990 MWh sold: 2,155
1990 revenues: $187,000

Long Grove Electric Co.
Box 210
Long Grove, Iowa 52756
(319) 285-7201
Joel McCubbin, Director of Public
Works
customers: 191
1990 MWh generated: 0
1990 MWh purchased: 2,334
1990 MWh sold: 1,900
1990 revenues: $145,000

Manilla, City of†*
443 Main St., Box 398
Manilla, Iowa 51454
(712) 654-3952
James H. Macumber, Superintendent
customers: 472
nameplate capacity (kW): oil: 1,100
1990 MWh generated: 0
1990 MWh purchased: 7,511
1990 MWh sold: 6,774
1990 revenues: $340,000
established 1915

Manning, City of*
719 Third St.
Manning, Iowa 51455
(712) 653-3214
Gerald Beck, Manager
customers: 836
nameplate capacity (kW): oil: 1,610
1990 MWh generated: 0
1990 MWh purchased: 28,700
1990 MWh sold: 27,140
1990 revenues: $1,319,000
established 1937

Mapleton, City of
513 Main St.
Mapleton, Iowa 51034
(712) 882-1351
Tom LeFebvre, Electrical
Superintendent
customers: 882
1990 MWh generated: 0
1990 MWh purchased: 11,675
1990 MWh sold: 10,248
1990 revenues: $701,000

Maquoketa Municipal Electric Utility†*
201 E. Pleasant
Maquoketa, Iowa 52060
(319) 652-6891
Francis Beller, Power Plant
Superintendent
customers: 3,358
nameplate capacity (kW): gas: 14,200;
oil: 2,400
1990 MWh generated: 1,527
1990 MWh purchased: 54,667
1990 MWh sold: 53,177
1990 revenues: $4,187,000
established 1919

---

* Member, American Public Power Association

† Member, Demonstration of Energy-Efficient Developments Program

Marathon, City of
Box 189
Marathon, Iowa 50565
(712) 289-2261
Joe Rydstrom, Superintendent
customers: 228
1990 MWh generated: 0
1990 MWh purchased: 2,335
1990 MWh sold: 2,074
1990 revenues: $178,000
established 1916

McGregor, City of
126 First St.
McGregor, Iowa 52157
(319) 873-2258
M. Weller, Foreman
customers: 594
nameplate capacity (kW): oil: 2,000
1990 MWh generated: 121
1990 MWh purchased: 6,988
1990 MWh sold: 6,560
1990 revenues: $454,000
established 1941

Milford Municipal Utilities†*
907 11th St.
Milford, Iowa 51351
(712) 338-2401
Robert W. Sewell, Manager
customers: 1,135
nameplate capacity (kW): oil: 1,500
1990 MWh generated: 0
1990 MWh purchased: 23,245
1990 MWh sold: 22,693
1990 revenues: $991,000
established 1935

Montezuma Municipal Light & Power*
406 E. Washington
Montezuma, Iowa 50171
(515) 623-5102
Don H. Fahlenkamp, Superintendent
customers: 839
nameplate capacity (kW): oil: 6,388
1990 MWh generated: 183
1990 MWh purchased: 17,266
1990 MWh sold: 15,926
1990 revenues: $1,007,000
established 1939

Mount Pleasant, City of*
509 N. Adams St., Box 637
Mount Pleasant, Iowa 52641
(319) 385-2121
Manager
customers: 3,606
nameplate capacity (kW): coal: 10,500; oil: 1,000
1990 MWh generated: 0
1990 MWh purchased: 54,939
1990 MWh sold: 49,674
1990 revenues: $3,339,000
established 1897

Muscatine Power & Water†*
3205 Cedar St., Box 899
Muscatine, Iowa 52761
(319) 263-2631
Larry J. Koshire, General Manager
customers: 10,413
nameplate capacity (kW): coal: 248,500
1990 MWh generated: 1,120,523
1990 MWh purchased: 233,392
1990 MWh sold: retail: 715,427
wholesale: 613,629
1990 revenues: retail: $30,563,000
wholesale: $43,107,000
established 1922

Neola, City of
103 Third St., Box 67
Neola, Iowa 51559
(712) 485-2307
George Soppe
customers: 454
1990 MWh generated: 0
1990 MWh purchased: 3,884
1990 MWh sold: 3,272
1990 revenues: $220,000
established 1898

New Hampton Municipal Light Plant*
921 Canty Ave.
New Hampton, Iowa 50659
(515) 394-3002
Robert K. Kamrath, Superintendent
customers: 2,360
nameplate capacity (kW): gas: 16,020
1990 MWh generated: 1,041
1990 MWh purchased: 49,264
1990 MWh sold: 48,315
1990 revenues: $2,479,000
established 1903

New London Municipal Utilities
601 E. Main St.
New London, Iowa 52645
(319) 367-7703
Kirk W. Miller, Utility Superintendent
customers: 1,181
1990 MWh generated: 0
1990 MWh purchased: 13,663
1990 MWh sold: 11,758
1990 revenues: $732,000
established 1909

Ogden Municipal Utilities*
N.W. Third & W. Locust, Box 70
Ogden, Iowa 50212
(515) 275-2437
Daniel L. Wilson, Superintendent
customers: 1,039
nameplate capacity (kW): oil: 3,980
1990 MWh generated: 107
1990 MWh purchased: 11,579
1990 MWh sold: 10,388
1990 revenues: $763,000
established 1930

Onawa, City of*
914 Diamond
Onawa, Iowa 51040
(712) 423-1181
Jeff Sander, Superintendent
customers: 2,065
nameplate capacity (kW): oil: 3,210
1990 MWh generated: 0
1990 MWh purchased: 25,632
1990 MWh sold: 22,416
1990 revenues: $1,312,000
established 1894

Orange City, City of†*
125 Central Ave. SE
Orange City, Iowa 51041
(712) 737-4885
Don Schreur, City Administrator
customers: 1,856
nameplate capacity (kW): oil: 3,600
1990 MWh generated: 0
1990 MWh purchased: 58,200
1990 MWh sold: 54,880
1990 revenues: $2,554,000
established 1921

Orient Municipal Utilities
106 W. Second, Box 116
Orient, Iowa 50858
(515) 337-5711
Gary Lowe, Superintendent
customers: 222
1990 MWh generated: 0
1990 MWh purchased: 1,838
1990 MWh sold: 1,662
1990 revenues: $132,000
established 1942

Osage Municipal Utilities†*
720 Chestnut St., Box 207
Osage, Iowa 50461
(515) 732-3731
Weston D. Birdsall, General Manager
customers: 2,090
nameplate capacity (kW): oil: 11,700
1990 MWh generated: 196
1990 MWh purchased: 34,915
1990 MWh sold: 32,636
1990 revenues: $1,635,000
established 1941

Ottumwa, City of
310 S. Wapello St.
Ottumwa, Iowa 52501
(515) 684-4606
Alan R. Borden, Hydro-Power Division
customers: wholesale only
nameplate capacity (kW): hydro: 3,000
1990 MWh generated: 7,166
1990 MWh purchased: 0
1990 MWh sold: wholesale: 7,070
1990 revenues: wholesale: $312,000

Panora, City of
102 N.W. Second St.
Panora, Iowa 50216
(515) 755-2164
V. L. Schieffer Jr., Electrical Superintendent
customers: 690
nameplate capacity (kW): unavailable
1990 MWh generated: 41
1990 MWh purchased: 9,768
1990 MWh sold: 9,099
1990 revenues: $700,000
established 1921

Paton, City of
Paton, Iowa 50217
(515) 968-4133
Dennis Subbert, Superintendent
customers: 172
1990 MWh generated: 0
1990 MWh purchased: 1,984
1990 MWh sold: 1,498
1990 revenues: $146,000
established 1920

Paullina Municipal Electric Utility†*
127 S. Main St., Box 239
Paullina, Iowa 51046
(712) 448-3428
Donald T. Dawson, City Clerk/Administrator
customers: 679
nameplate capacity (kW): oil: 1,600
1990 MWh generated: 0
1990 MWh purchased: 7,720
1990 MWh sold: 7,170
1990 revenues: $454,000
established 1919

Pella Electric Department
717 Main St.
Pella, Iowa 50219
(515) 628-2581
Larry Peterson, Distribution Superintendent
customers: 4,081
nameplate capacity (kW): coal: 42,000
1990 MWh generated: 85,700
1990 MWh purchased: 51,240
1990 MWh sold: 125,400
1990 revenues: $6,825,000
established 1909

Pocahontas, City of*
23 W. Elm
Pocahontas, Iowa 50574
(712) 335-4841
Jack Gould, Electric Superintendent
customers: 1,206
1990 MWh generated: 0
1990 MWh purchased: 16,000
1990 MWh sold: 15,921
1990 revenues: $982,000
established 1912

Preston, City of†*
12 W. Gillet St., Box 37
Preston, Iowa 52069
(319) 689-3081
Gary Driscoll, Superintendent
customers: 511
nameplate capacity (kW): unavailable
1990 MWh generated: 31
1990 MWh purchased: 10,082
1990 MWh sold: 9,448
1990 revenues: $641,000
established 1939

Primghar, City of†*
1551 First St., S.W., Box 39
Primghar, Iowa 51245
(712) 757-2435
Robert L. Mulder, Superintendent
customers: 556
nameplate capacity (kW): oil: 1,400
1990 MWh generated: 0
1990 MWh purchased: 7,911
1990 MWh sold: 6,600
1990 revenues: $353,000
established 1939

Readlyn, City of
Box 70
Readlyn, Iowa 50668
(319) 279-3411
Lois Buhr, Clerk
customers: 367
1990 MWh generated: 0
1990 MWh purchased: 4,143
1990 MWh sold: retail: 3,659
wholesale: 338
1990 revenues: retail: $239,000
wholesale: $16,000

Remsen, City of†
125 E. First St.
Remsen, Iowa 51050
(712) 786-2136
Tom Letsche, City Manager
customers: 774
nameplate capacity (kW): oil: 1,400
1990 MWh generated: 0
1990 MWh purchased: 12,560
1990 MWh sold: 12,170
1990 revenues: $474,000
established 1933

Renwick, City of
Box 174
Renwick, Iowa 50577
(515) 824-3511
Galen Engstrom, Superintendent
customers: 181
nameplate capacity (kW): oil: 483
1990 MWh generated: 0
1990 MWh purchased: 2,909
1990 MWh sold: 2,568
1990 revenues: $181,000
established 1928

Rock Rapids Municipal Utilities†*
310 S. Third Ave.
Rock Rapids, Iowa 51246
(712) 472-2511
William G. Tobin, Manager
customers: 1,275
nameplate capacity (kW): oil: 2,500
1990 MWh generated: 12
1990 MWh purchased: 23,662
1990 MWh sold: 21,340
1990 revenues: $1,003,000
established 1896

Rockford Municipal Light Plant
18 First St. S.
Rockford, Iowa 50468
(515) 756-2215
Gary Schriever, Superintendent
customers: 530
nameplate capacity (kW): oil: 1,865
1990 MWh generated: 0
1990 MWh purchased: 4,263
1990 MWh sold: 4,260
1990 revenues: $302,000

established 1935

Sabula, City of
411 Broad St.
Sabula, Iowa 52070
(319) 687-2420
Ronald Fleming, City Clerk
customers: 405
1990 MWh generated: 0
1990 MWh purchased: 3,711
1990 MWh sold: 3,475
1990 revenues: $236,000
established 1915

Sanborn Municipal Light Plant†*
102 Main St., Box 548
Sanborn, Iowa 51248
(712) 729-3974
Allen Bonderman, General Manager
customers: 665
nameplate capacity (kW): oil: 1,500
1990 MWh generated: 0
1990 MWh purchased: 14,941
1990 MWh sold: 13,871
1990 revenues: $628,000
established 1947

Sergeant Bluff, City of
Box 703
Sergeant Bluff, Iowa 51054
(712) 943-4244
Roger Groves, Maintenance Superintendent
customers: 1,027
1990 MWh generated: 0
1990 MWh purchased: 20,000
1990 MWh sold: 20,000
1990 revenues: $1,263,000
established 1933

Shelby Municipal Utilities†*
419 East St.
Shelby, Iowa 51570
(712) 544-2404
Roger Heilig, Superintendent
customers: 343
1990 MWh generated: 0
1990 MWh purchased: 4,659
1990 MWh sold: 4,280
1990 revenues: $205,000

Sibley, City of*
1108 Third Ave.
Sibley, Iowa 51249
(712) 754-3454
Gary Obbink, Superintendent
customers: 1,464
nameplate capacity (kW): oil: 4,456
1990 MWh generated: 127
1990 MWh purchased: 33,954
1990 MWh sold: retail: 30,147
wholesale: 1,768
1990 revenues: retail: $1,516,000
wholesale: $80,000
established 1915

Sioux Center Municipal Utilities†*
337 N. Main Ave.
Sioux Center, Iowa 51250
(712) 722-0761
Harold Schiebout, Utilities Manager
customers: 1,817
nameplate capacity (kW): oil: 1,465
1990 MWh generated: 0
1990 MWh purchased: 52,703
1990 MWh sold: 50,296
1990 revenues: $2,261,000
established 1949

Spencer Municipal Utilities†*
Box 5046
Spencer, Iowa 51301
(712) 262-3027
Neal Drefke, General Manager
customers: 5,421
nameplate capacity (kW): coal: 7,810; oil: 23,800
1990 MWh generated: 52,718
1990 MWh purchased: 96,441
1990 MWh sold: retail: 108,690
wholesale: 30,443
1990 revenues: retail: $4,722,000
wholesale: $321,000
established 1901

Stanhope Municipal Electric Utility*
665 Iowa St.
Stanhope, Iowa 50246
(515) 826-3290
R. L. McKenzie, Clerk
customers: 250
1990 MWh generated: 0
1990 MWh purchased: 2,691
1990 MWh sold: 2,459
1990 revenues: $187,000

Stanton, City of
Box H
Stanton, Iowa 51573
(712) 829-2613
Manager
customers: 292
1990 MWh generated: 0
1990 MWh purchased: 6,872
1990 MWh sold: 5,585
1990 revenues: $267,000
established 1937

State Center, City of
Box 668
State Center, Iowa 50247
(515) 483-2590
Maynard P. Stief, City Superintendent
customers: 832
nameplate capacity (kW): oil: 5,572
1990 MWh generated: 191
1990 MWh purchased: 10,852
1990 MWh sold: retail: 9,399
wholesale: 16
1990 revenues: retail: $766,000
wholesale: $28,000
established 1899

Story City, City of†*
504 Broad St.
Story City, Iowa 50248
(515) 733-4691
Bruce A. Twedt, Acting Superintendent
customers: 1,526
nameplate capacity (kW): oil: 9,020
1990 MWh generated: 785
1990 MWh purchased: 26,992
1990 MWh sold: 24,909
1990 revenues: $1,642,000
established 1904

Stratford, City of
Shakespeare Ave.
Stratford, Iowa 50249
(515) 838-2311
Geraldine Conklin, Clerk
customers: 395
1990 MWh generated: 0
1990 MWh purchased: 4,027
1990 MWh sold: 3,245
1990 revenues: $278,000
established 1920

Strawberry Point, City of
111 Commercial St., Box 297
Strawberry Point, Iowa 52076
(319) 933-4482
James Knott, City Administrator
customers: 775
nameplate capacity (kW): oil: 1,600
1990 MWh generated: 66
1990 MWh purchased: 7,471
1990 MWh sold: 6,878
1990 revenues: $571,000
established 1928

Stuart, City of*
1211 Front St.
Stuart, Iowa 50250
(515) 523-2915
Bill Gilliam, Superintendent
customers: 827
nameplate capacity (kW): oil: 2,945
1990 MWh generated: 145
1990 MWh purchased: 10,520
1990 MWh sold: 9,083
1990 revenues: $681,000
established 1891

Sumner, City of†*
105 Wapsie St., Box 267
Sumner, Iowa 50674
(319) 578-5611
Robert Jergens, Superintendent
customers: 1,127
nameplate capacity (kW): gas: 3,850; oil: 1,700
1990 MWh generated: 160
1990 MWh purchased: 13,870
1990 MWh sold: 13,420
1990 revenues: $911,000
established 1935

Tennant, City of
Tennant, Iowa 51572
(712) 744-3449
Trena Cooper, Clerk
customers: 30
1990 MWh generated: 0
1990 MWh purchased: 323
1990 MWh sold: 308
1990 revenues: $18,000
established 1986

Tipton, City of*
407 Lynn St.
Tipton, Iowa 52772
(319) 886-6187
Robert Snavely, City Coordinator
customers: 1,722
nameplate capacity (kW): gas: 2,700; oil: 770
1990 MWh generated: 15,732
1990 MWh purchased: 5,652
1990 MWh sold: 20,313
1990 revenues: $1,551,000
established 1916

Traer Municipal Utilities†*
649 Second St.
Traer, Iowa 50675
(319) 478-8760
Kent Holst, General Manager
customers: 1,029
nameplate capacity (kW): oil: 4,100
1990 MWh generated: 214
1990 MWh purchased: 15,149
1990 MWh sold: 13,699
1990 revenues: $1,111,000
established 1917

Villisca Municipal Power Plant*
City Hall, S. Third Ave.
Villisca, Iowa 50864
(712) 826-3192
Don Patterson, Superintendent
customers: 930
nameplate capacity (kW): gas: 1,100; oil: 900
1990 MWh generated: 0
1990 MWh purchased: 11,662
1990 MWh sold: 9,900
1990 revenues: $349,000
established 1936

Vinton Municipal Electric Utility*
501 First Ave.
Vinton, Iowa 52349
(319) 472-3663
Collin D. Engebretson, Superintendent
customers: 2,369
nameplate capacity (kW): oil: 15,910
1990 MWh generated: 2,775
1990 MWh purchased: 27,518
1990 MWh sold: 28,363
1990 revenues: $1,979,000
established 1895

Wall Lake, City of†*
Box 27
Wall Lake, Iowa 51466
(712) 664-2216
Orville Franck, Mayor
customers: 425
1990 MWh generated: 0
1990 MWh purchased: 8,957
1990 MWh sold: 7,432
1990 revenues: $329,000
established 1903

Waverly Light & Power†*
1500 W. Bremer Ave.
Waverly, Iowa 50677
(319) 352-6251
Glenn Cannon, General Manager
customers: 3,807
nameplate capacity (kW): coal: 8,120; hydro: 495; gas: 13,595; oil: 2,600
1990 MWh generated: 38,530
1990 MWh purchased: 50,421
1990 MWh sold: 85,022
1990 revenues: $4,887,000
established 1904

Webster City, City of
City Hall, Box 217
Webster City, Iowa 50595
(515) 832-5701
R. E. Hays, City Manager
customers: 4,224
nameplate capacity (kW): coal: 16,640; oil: 23,000
1990 MWh generated: 0
1990 MWh purchased: 113,444
1990 MWh sold: retail: 100,974
wholesale: 4,784
1990 revenues: retail: $5,983,000
wholesale: $281,000
established 1890

West Bend, City of
City Hall, Box 37
West Bend, Iowa 50597
(515) 887-5585
Joe Mikes, Superintendent
customers: 657
nameplate capacity (kW): oil: 4,447
1990 MWh generated: 203
1990 MWh purchased: 12,482
1990 MWh sold: 10,162
1990 revenues: $729,000
established 1915

West Liberty, City of
101 W. 4th St.
West Liberty, Iowa 52776
(319) 627-2418
Edward R. Stiff, City Manager
customers: 1,300
nameplate capacity (kW): oil: 6,356
1990 MWh generated: 222
1990 MWh purchased: 48,670
1990 MWh sold: 45,276
1990 revenues: $2,635,000
established 1897

West Point, City of
313 Fifth St.
West Point, Iowa 52656
(319) 837-6313
Jim Bethurem, City Administrator
customers: 646
1990 MWh generated: 0
1990 MWh purchased: 9,851
1990 MWh sold: 8,508
1990 revenues: $628,000

Westfield, Town of
Box 5
Westfield, Iowa 51062
(712) 568-2631

---

* Member, American Public Power Association
† Member, Demonstration of Energy-Efficient Developments Program

Barbette Grimm, Clerk
customers: 88
1990 MWh generated: 0
1990 MWh purchased: 715
1990 MWh sold: 715
1990 revenues: $55,000

Whittemore, City of
Box 127
Whittemore, Iowa 50598
(515) 884-2265
Michael D. Elbert, Superintendent
customers: 320
nameplate capacity (kW): oil: 2,064
1990 MWh generated: 36
1990 MWh purchased: 4,203
1990 MWh sold: 4,188
1990 revenues: $285,000

Wilton, City of*
104 E. Fourth St.
Wilton, Iowa 52778
(319) 732-2929
Collin Proctor, Electric Superintendent
customers: 1,266
nameplate capacity (kW): oil: 4,335
1990 MWh generated: 0
1990 MWh purchased: 19,056
1990 MWh sold: 17,487
1990 revenues: $1,305,000
established 1893

Winterset, City of*
321 N. First St.
Winterset, Iowa 50273
(515) 462-2152
Mike Willetts, Superintendent
customers: 1,990
nameplate capacity (kW): oil: 8,480
1990 MWh generated: 372
1990 MWh purchased: 30,386
1990 MWh sold: 26,498
1990 revenues: $1,794,000
established 1889

Woodbine, City of†*
517 Walker St.
Woodbine, Iowa 51579
(712) 647-2340
Rory Weis, Superintendent
customers: 724
1990 MWh generated: 0
1990 MWh purchased: 11,000
1990 MWh sold: 11,000
1990 revenues: $477,000
established 1941

Woolstock, City of
Box 57
Woolstock, Iowa 50599
(515) 839-5531
Hazel Brock, Clerk
customers: 117
1990 MWh generated: 0
1990 MWh purchased: 1,514
1990 MWh sold: 1,369
1990 revenues: $113,000

Kansas

Alma, City of
326 Missouri
Alma, Kan. 66401
(913) 765-3922
Max Kraus, Superintendent
customers: 476
1990 MWh generated: 0
1990 MWh purchased: 5,930
1990 MWh sold: 5,486
1990 revenues: $452,000
established 1938

Altamont, City of
407 S. Houston, Box 305
Altamont, Kan. 67330
(316) 784-5612
Denzil Davidson, Superintendent
customers: 513
1990 MWh generated: 0
1990 MWh purchased: 6,531
1990 MWh sold: 6,487
1990 revenues: $497,000
established 1934

Anthony, City of*
124 S. Bluff Ave.
Anthony, Kan. 67003
(316) 842-5960
Priscilla Goucher, Superintendent
customers: 2,022
nameplate capacity (kW): gas: 11,100
1990 MWh generated: 7,689
1990 MWh purchased: 20,666
1990 MWh sold: 24,087
1990 revenues: $1,541,000
established 1879

Arcadia, City of
Box 126
Arcadia, Kan. 66711
(316) 638-4310
Nancy Sisney, City Clerk
customers: 213
1990 MWh generated: 0
1990 MWh purchased: 1,599
1990 MWh sold: 1,284
1990 revenues: $138,000
established 1913

Arma, City of
701 E. Washington, Box 829
Arma, Kan. 66712
(316) 347-4125
James C. Jones, Electrical Superintendent
customers: 680
1990 MWh generated: 0
1990 MWh purchased: 9,116
1990 MWh sold: 7,845
1990 revenues: $759,000
established 1909

Ashland, City of
703 Main St., Box 547
Ashland, Kan. 67831
(316) 635-2512
Donald R. German, City Superintendent
customers: 690
nameplate capacity (kW): gas: 4,075; oil: 900
1990 MWh generated: 3,251
1990 MWh purchased: 6,651
1990 MWh sold: 8,444
1990 revenues: $618,000
established 1909

Attica, City of
Box 421
Attica, Kan. 67009
(316) 254-7228
Ken Dixon, City Superintendent
customers: 474
nameplate capacity (kW): oil: 3,180
1990 MWh generated: 630
1990 MWh purchased: 6,043
1990 MWh sold: 6,673
1990 revenues: $457,000
established 1915

Augusta, City of
Sixth & School Sts., Box 489
Augusta, Kan. 67010
(316) 775-7051
Bill Webster, Superintendent
customers: 3,900
nameplate capacity (kW): gas: 22,636; oil: 1,106
1990 MWh generated: 22,108
1990 MWh purchased: 36,769
1990 MWh sold: 55,652
1990 revenues: $3,128,000
established 1911

Axtell, City of
401 Maple St., Box A
Axtell, Kan. 66403
(913) 736-2834
Roger Koch, Superintendent
customers: 241
1990 MWh generated: 0
1990 MWh purchased: 2,190
1990 MWh sold: 1,839
1990 revenues: $145,000

Baldwin City, City of
Box 86
Baldwin City, Kan. 66006
(913) 594-3261
Rick Anderson, Director of Electric Utility
customers: 1,193
nameplate capacity (kW): oil: 6,120
1990 MWh generated: 505
1990 MWh purchased: 17,096
1990 MWh sold: 12,353
1990 revenues: $1,270,000
established 1906

Belleville, City of*
1819 L St., Box 280
Belleville, Kan. 66935
(913) 527-2288
Aaron McKee, City Manager
customers: 1,557
nameplate capacity (kW): oil: 13,200
1990 MWh generated: 12,339
1990 MWh purchased: 12,083
1990 MWh sold: 18,999
1990 revenues: $1,512,000
established 1923

Beloit, City of†*
119 N. Hersey
Beloit, Kan. 67420
(913) 738-3551
Gene Miles, City Administrator
customers: 2,035
nameplate capacity (kW): oil: 19,350
1990 MWh generated: 3,647
1990 MWh purchased: 33,149
1990 MWh sold: 31,569
1990 revenues: $2,331,000
established 1890

Blue Mound, City of
Blue Mound, Kan. 66010
(913) 756-2281
Ralph Kastl, Mayor
customers: 145
1990 MWh generated: 0
1990 MWh purchased: 1,455
1990 MWh sold: 1,301
1990 revenues: $101,000

Bronson, City of
505 Clay St., Box 54
Bronson, Kan. 66716
(316) 939-4578
Ellen Harper, Clerk
customers: 185
1990 MWh generated: 0
1990 MWh purchased: 1,884
1990 MWh sold: 1,884
1990 revenues: $136,000
established 1926

Burlingame, City of
101 E. Santa Fe
Burlingame, Kan. 66413
(913) 654-2414
Cheryl D. Holloway, Clerk
customers: 606
nameplate capacity (kW): oil: 4,600
1990 MWh generated: 896
1990 MWh purchased: 6,950
1990 MWh sold: 6,441
1990 revenues: $520,000
established 1902

Burlington, City of
301 Neosho St., P.O. Box 207
Burlington, Kan. 66839
(316) 364-5334
Daniel K. Allen, Clerk
customers: 1,204
nameplate capacity (kW): gas: 7,900; oil: 600
1990 MWh generated: 1,008
1990 MWh purchased: 24,704
1990 MWh sold: 23,425
1990 revenues: $1,848,000
established 1935

Cawker City, City of
804 Locust St.
Cawker City, Kan. 67430-0002
(913) 781-4713
Steve Stuart, Electric Superintendent
customers: 434
1990 MWh generated: 0
1990 MWh purchased: 5,120
1990 MWh sold: 4,360
1990 revenues: $352,000
established 1913

Centralia, City of
517 Fourth St.
Centralia, Kan. 66415
(913) 857-3764
G. L. Luebbe, Clerk
customers: 300
1990 MWh generated: 0
1990 MWh purchased: 3,236
1990 MWh sold: 2,710
1990 revenues: $266,000
established 1911

Chanute, City of*
101 S. Lincoln
Chanute, Kan. 66720
(316) 431-9300
Robert H. Walker, City Manager
customers: 5,500
nameplate capacity (kW): gas: 19,700; oil: 20,865
1990 MWh generated: 10,807
1990 MWh purchased: 129,968
1990 MWh sold: 134,202
1990 revenues: $8,093,000
established 1903

Chapman, City of
402 Marshall St., Box 321
Chapman, Kan. 67431
(913) 922-6582
James Murrison, Superintendent
customers: 628
1990 MWh generated: 0
1990 MWh purchased: 7,663
1990 MWh sold: 5,021
1990 revenues: $550,000
established 1911

Chetopa, City of
332 Maple St., Box 203
Chetopa, Kan. 67336
(316) 236-7511
Mary Addis, City Clerk
customers: 783
1990 MWh generated: 0
1990 MWh purchased: 10,890
1990 MWh sold: 8,988
1990 revenues: $489,000
established 1937

Cimarron, City of
119 S. Main St., Box 467
Cimarron, Kan. 67835
(316) 855-2322
Vernon Hanna, City Superintendent
customers: 853
1990 MWh generated: 0
1990 MWh purchased: 13,558
1990 MWh sold: 11,587
1990 revenues: $1,059,000
established 1913

Clay Center Public Utilities*
427 Court St.
Clay Center, Kan. 67432
(913) 632-2137
D. D. Dierking, Superintendent-Utilities
customers: 2,736

KANSAS *(continued)*

nameplate capacity (kW): gas: 17,600
1990 MWh generated: 20,674
1990 MWh purchased: 19,106
1990 MWh sold: 35,846
1990 revenues: $2,500,000
established 1907

Coffeyville, City of*
Box 1629
Coffeyville, Kan. 67337
(316) 251-7000
Ron Sandusky, Director of Electric Utility
customers: 8,011
nameplate capacity (kW): gas: 80,000
1990 MWh generated: 17,034
1990 MWh purchased: 156,007
1990 MWh sold: 158,335
1990 revenues: $10,428,000
established 1901

Colby, City of*
585 N. Franklin St.
Colby, Kan. 67701
(913) 462-3973
Corky Delzeit, Director of Public Power
customers: 2,717
nameplate capacity (kW): oil: 17,360
1990 MWh generated: 21
1990 MWh purchased: 50,272
1990 MWh sold: 40,512
1990 revenues: $2,375,000
established 1910

DeSoto, City of
33150 W. 83rd St., Box C
DeSoto, Kan. 66018
(913) 585-1182
Garry Rudler, Public Works Director
customers: 950
1990 MWh generated: 0
1990 MWh purchased: 8,890
1990 MWh sold: 7,980
1990 revenues: $758,000
established 1930

Dighton, City of
Box 848
Dighton, Kan. 67839
(316) 397-5541
Bill Dutoit, Superintendent
customers: 801
1990 MWh generated: 0
1990 MWh purchased: 9,376
1990 MWh sold: 8,364
1990 revenues: $951,000
established 1916

Ellinwood, City of
Box 278
Ellinwood, Kan. 67526
(316) 564-2211
Daryle Nielsen, Electrical Superintendent
customers: 1,269
nameplate capacity (kW): oil: 8,500
1990 MWh generated: 2,982
1990 MWh purchased: 11,891
1990 MWh sold: 13,019
1990 revenues: $1,022,000
established 1948

Elsmore, City of
Elsmore, Kan. 66732
(316) 754-3875
Peggy Stewart, Clerk
customers: 62
1990 MWh generated: 0
1990 MWh purchased: 436
1990 MWh sold: 378
1990 revenues: $38,000

Elwood, City of
Box 357
Elwood, Kan. 66024
(913) 365-6871
Phyllis McCrory, City Administrator
customers: 476
1990 MWh generated: 0
1990 MWh purchased: 4,754
1990 MWh sold: 4,310
1990 revenues: $421,000

Enterprise, City of
206 S. Factory, Box 245
Enterprise, Kan. 67441
(913) 934-2323
Glenn M. Decker, Mayor
customers: 355
1990 MWh generated: 0
1990 MWh purchased: 4,268
1990 MWh sold: 3,631
1990 revenues: $254,000
established 1910

Erie Municipal Light & Power*
224 S. Main St.
Erie, Kan. 66733
(316) 244-3488
Carrol W. Webber, City Superintendent
customers: 697
nameplate capacity (kW): oil: 3,850
1990 MWh generated: 0
1990 MWh purchased: 10,191
1990 MWh sold: 8,979
1990 revenues: $557,000
established 1915

Eudora, City of
Seventh & Main Sts.
Eudora, Kan. 66025
(913) 542-3100
Gary Malburg, Superintendent
customers: 1,274
1990 MWh generated: 0
1990 MWh purchased: 19,605
1990 MWh sold: 18,670
1990 revenues: $1,494,000

Fredonia Municipal Power Plant
314 N. 7th St.
Fredonia, Kan. 66736
(316) 378-2231
Karen Shinn, Clerk
customers: 1,722
nameplate capacity (kW): oil: 7,425
1990 MWh generated: 193
1990 MWh purchased: 25,873
1990 MWh sold: 20,578
1990 revenues: $1,794,000
established 1901

Galva, City of
208 S. Main St.
Galva, Kan. 67443
(316) 654-3561
Vernon R. Koehn, City Superintendent
customers: 338
1990 MWh generated: 0
1990 MWh purchased: 3,612
1990 MWh sold: 3,093
1990 revenues: $262,000
established 1918

Garden City, City of
301 N. Eighth St., Box 499
Garden City, Kan. 67846
(316) 276-1234
Robert Halloran, City Manager
customers: 9,416
1990 MWh generated: 0
1990 MWh purchased: 156,966
1990 MWh sold: 136,413
1990 revenues: $10,144,000

Gardner, City of
112 S. Elm
Gardner, Kan. 66030
(913) 884-7029
James L. Cole, Superintendent
customers: 1,452
nameplate capacity (kW): unavailable
1990 MWh generated: 399
1990 MWh purchased: 25,895
1990 MWh sold: retail: 25,230
wholesale: 140
1990 revenues: retail: $1,520,000
wholesale: $11,000
established 1918

Garnett, City of*
131 W. Fifth St., Box H
Garnett, Kan. 66032
(913) 448-5496
Richard G. Doran, City Manager
customers: 1,815
nameplate capacity (kW): gas: 6,392; oil: 2,900
1990 MWh generated: 4,046
1990 MWh purchased: 21,538
1990 MWh sold: 19,132
1990 revenues: $1,530,000
established 1918

Girard, City of†*
100 S. Ozark St.
Girard, Kan. 66743
(316) 724-8918
Richard McClanathan, City Administrator
customers: 1,600
nameplate capacity (kW): oil: 4,800
1990 MWh generated: 0
1990 MWh purchased: 26,848
1990 MWh sold: 22,865
1990 revenues: $2,083,000
established 1904

Glasco, City of
Box 356
Glasco, Kan. 67445
(913) 568-2705
Carl Adkins, Mayor
customers: 350
1990 MWh generated: 0
1990 MWh purchased: 3,712
1990 MWh sold: 3,610
1990 revenues: $300,000
established 1910

Glen Elder, City of
101 S. Market St., Box 55
Glen Elder, Kan. 67446
(913) 545-3322
Geneva Winkel, City Clerk
customers: 362
1990 MWh generated: 0
1990 MWh purchased: 3,494
1990 MWh sold: 3,154
1990 revenues: $280,000
established 1905

Goodland, City of†*
17th & Cherry Sts.
Goodland, Kan. 67735
(913) 899-5200
Larry Heinrich, Superintendent
customers: 2,397
nameplate capacity (kW): gas: 20,240; oil: 770
1990 MWh generated: 11,214
1990 MWh purchased: 32,783
1990 MWh sold: 38,948
1990 revenues: $2,932,000
established 1937

Greensburg, City of
239 S. Main St.
Greensburg, Kan. 67054
(316) 723-2691
Melvin Simmons, Superintendent
customers: 1,017
nameplate capacity (kW): gas: 7,800
1990 MWh generated: 14,851
1990 MWh purchased: 0
1990 MWh sold: 12,392
1990 revenues: $974,000
established 1911

Haven, City of
118 S. Kansas Ave.
Haven, Kan. 67543
(316) 465-3618
Don R. Huston, Superintendent
customers: 586
1990 MWh generated: 0
1990 MWh purchased: 9,989
1990 MWh sold: 8,856
1990 revenues: $703,000
established 1908

Herington, City of†*
19 N. Broadway, Box 31
Herington, Kan. 67449
(913) 258-2271
W. A. Wetmore, City Manager
customers: 1,520
nameplate capacity (kW): gas: 8,900; oil: 840
1990 MWh generated: 2,329
1990 MWh purchased: 19,745
1990 MWh sold: 17,714
1990 revenues: $1,332,000
established 1888

Herndon, City of
Box 98
Herndon, Kan. 67739
(913) 322-5341
Donald E. Grafel, Mayor
customers: 165
nameplate capacity (kW): oil: 300
1990 MWh generated: 0
1990 MWh purchased: 1,000
1990 MWh sold: 972
1990 revenues: $87,000
established 1937

Hill City, City of
205 N. Pomeroy
Hill City, Kan. 67642
(913) 674-5613
Darrel A. Williams, Plant Superintendent
customers: 1,084
nameplate capacity (kW): gas: 7,265
1990 MWh generated: 88
1990 MWh purchased: 13,959
1990 MWh sold: 11,142
1990 revenues: $1,116,000
established 1900

Hillsboro, City of
116 E. Grand St.
Hillsboro, Kan. 67063
(316) 947-3162
Brent Boring, City Superintendent
customers: 1,380
1990 MWh generated: 0
1990 MWh purchased: 17,788
1990 MWh sold: 15,534
1990 revenues: $1,339,000
established 1930

Hoisington, City of*
164 S. Elm St., Box 418
Hoisington, Kan. 67544
(316) 653-4125
Carl Myers, City Manager
customers: 1,799
nameplate capacity (kW): gas: 15,794; oil: 200
1990 MWh generated: 7,079
1990 MWh purchased: 13,194
1990 MWh sold: 17,690
1990 revenues: $1,357,000
established 1940

Holton, City of
1000 New Jersey
Holton, Kan. 66436
(913) 364-2721
Eugene Williams, City Manager
customers: 1,935
nameplate capacity (kW): oil: 13,800
1990 MWh generated: 4,099
1990 MWh purchased: 28,790
1990 MWh sold: 30,257

---

* Member, American Public Power Association
† Member, Demonstration of Energy-Efficient Developments Program

1990 revenues: $1,594,000
established 1931

Holyrood, City of*
110 S. Main St., Box 67
Holyrood, Kan. 67450
(913) 252-3652
Clarence Munsey, Superintendent
customers: 334
1990 MWh generated: 0
1990 MWh purchased: 2,929
1990 MWh sold: 2,641
1990 revenues: $236,000
established 1918

Horton, City of
205 E. Eighth St., Box 30
Horton, Kan. 66439
(913) 486-2681
Edward E. Dawson, City Administrator
customers: 1,007
1990 MWh generated: 0
1990 MWh purchased: 13,623
1990 MWh sold: 10,464
1990 revenues: $961,000
established 1912

Hugoton, City of†*
114 E. Fifth St., Box 788
Hugoton, Kan. 67951
(316) 544-8531
Jerry Leonard, Superintendent
customers: 1,815
nameplate capacity (kW): oil: 17,600
1990 MWh generated: 24,798
1990 MWh purchased: 0
1990 MWh sold: 21,903
1990 revenues: $1,785,000
established 1919

Iola, City of*
2 W. Jackson St.
Iola, Kan. 66749
(316) 365-2771
Richard Olson, City Administrator
customers: 3,797
nameplate capacity (kW): gas: 10,500;
oil: 20,000
1990 MWh generated: 1,230
1990 MWh purchased: 90,090
1990 MWh sold: 81,880
1990 revenues: $4,085,000
established 1900

Isabel, City of
Box 97
Isabel, Kan. 67065
(316) 739-4347
Carolyn Armstrong, Clerk
customers: 81
1990 MWh generated: 0
1990 MWh purchased: 933
1990 MWh sold: 855
1990 revenues: $88,000

Iuka, City of
Box 127
Iuka, Kan. 67066
(316) 546-2565
E. Dale Anderson, City Clerk
customers: 120
1990 MWh generated: 0
1990 MWh purchased: 1,728
1990 MWh sold: 1,589
1990 revenues: $122,000
established 1916

Jetmore, City of
501 S. Main St.
Jetmore, Kan. 67854
(316) 357-8344
Dean Hertel, Utility Superintendent
customers: 603
nameplate capacity (kW): oil: 6,000
1990 MWh generated: 16
1990 MWh purchased: 6,890
1990 MWh sold: 5,734
1990 revenues: $327,000
established 1914

Johnson, City of
206 S. Main
Johnson, Kan. 67855
(316) 492-2322
Rex McGowne, Superintendent
customers: 734
nameplate capacity (kW): oil: 7,048
1990 MWh generated: 3,181
1990 MWh purchased: 9,353
1990 MWh sold: 10,900
1990 revenues: $818,000
established 1938

Kansas City Board of Public Utilities*
700 Minnesota Ave.
Kansas City, Kan. 66101
(913) 573-9000
Terry W. Drake, General Manager
customers: 66,057
nameplate capacity (kW): coal:
661,380; oil: 145,490
1990 MWh generated: 2,208,965
1990 MWh purchased: 383,963
1990 MWh sold: retail: 2,055,375
wholesale: 381,733
1990 revenues: retail: $97,761,000
wholesale: $12,507,000
established 1929

Kansas Municipal Energy Agency*
6950 Sqibb Road, Suite 414, Box 2179
Mission, Kan. 66201
(913) 677-2885
Gilbert E. Hanson Jr., General
Manager
customers: wholesale only
1990 MWh generated: 0
1990 MWh purchased: 266,456
1990 MWh sold: wholesale: 266,456
1990 revenues: wholesale:
$10,982,000
established 1978
(see expanded joint action agency section, page 140)

Kingman, City of
332 N. Main St.
Kingman, Kan. 67068
(316) 532-3111
Ira Hart, Superintendent
customers: 1,931
nameplate capacity (kW): oil: 15,650
1990 MWh generated: 37,297
1990 MWh purchased: 0
1990 MWh sold: 34,698
1990 revenues: $2,107,000
established 1913

Kiowa, City of
618 Main St., Box 206
Kiowa, Kan. 67070
(316) 825-4128
City Administrator
customers: 751
1990 MWh generated: 0
1990 MWh purchased: 9,976
1990 MWh sold: 9,166
1990 revenues: $793,000
established 1976

La Crosse, City of
Box K
La Crosse, Kan. 67548
(913) 222-2511
Randall D. Whitsitt, City Manager
customers: 815
nameplate capacity (kW): oil: 6,260
1990 MWh generated: 0
1990 MWh purchased: 9,950
1990 MWh sold: 8,200
1990 revenues: $762,000
established 1906

La Harpe, City of
Box 121
La Harpe, Kan. 66751
(316) 496-2241
Bill Beasley, Superintendent
customers: 334
1990 MWh generated: 0
1990 MWh purchased: 2,027
1990 MWh sold: 2,027
1990 revenues: $155,000
established 1899

Lakin, City of
121 N. Main St., Box 148
Lakin, Kan. 67860
(316) 355-6252
Don R. Voeller, City Administrator
customers: 880
nameplate capacity (kW): unavailable
1990 MWh generated: 5,196
1990 MWh purchased: 6,070
1990 MWh sold: 9,477
1990 revenues: $1,301,000
established 1915

Larned, City of*
Third & Main Sts.
Larned, Kan. 67550
(316) 285-3544
Ronald D. Arnold, City Manager
customers: 2,638
nameplate capacity (kW): gas: 14,100;
oil: 6,450
1990 MWh generated: 17,071
1990 MWh purchased: 21,152
1990 MWh sold: 36,260
1990 revenues: $2,357,000
established 1916

Lincoln Center, City of
153 W. Lincoln Ave., Box 126
Lincoln, Kan. 67455
(913) 524-4280
Ron Mason, City Superintendent
customers: 888
nameplate capacity (kW): gas: 4,650;
oil: 6,000
1990 MWh generated: 1,577
1990 MWh purchased: 10,843
1990 MWh sold: 10,146
1990 revenues: $875,000
established 1906

Lindsborg, City of
101 S. Main St., Box 70
Lindsborg, Kan. 67456
(913) 227-3355
Gary L. Meagher, City Administrator
customers: 1,439
1990 MWh generated: 0
1990 MWh purchased: 23,241
1990 MWh sold: 20,064
1990 revenues: $1,653,000
established 1904

Lucas, City of
Box 308
Lucas, Kan. 67648
(913) 525-6353
Billy W. Harlow, Superintendent
customers: 311
1990 MWh generated: 0
1990 MWh purchased: 2,832
1990 MWh sold: 2,704
1990 revenues: $244,000

Luray, City of
Luray, Kan. 67649
(913) 698-2302
Mona Lou Short, City Clerk
customers: 280
1990 MWh generated: 0
1990 MWh purchased: 1,664
1990 MWh sold: 1,443
1990 revenues: $123,000
established 1915

Mankato, City of
202 E. Jefferson
Mankato, Kan. 66956
(913) 378-3141
Donald L. Hamilton, City
Administrator
customers: 677
1990 MWh generated: 0
1990 MWh purchased: 7,325
1990 MWh sold: 6,908
1990 revenues: $571,000
established 1950

Marion, City of
203 N. Third
Marion, Kan. 66861
(316) 382-3703
Junior Bredemeier, City
Superintendent
customers: 999
1990 MWh generated: 0
1990 MWh purchased: 34,725
1990 MWh sold: 34,725
1990 revenues: $2,919,000
established 1928

McPherson, City of*
400 E. Kansas Ave.
McPherson, Kan. 67460
(316) 241-0661
R. N. Anderson, General Manager
customers: 7,345
nameplate capacity (kW): gas:
163,100; oil: 57,400
1990 MWh generated: 26,572
1990 MWh purchased: 447,506
1990 MWh sold: retail: 413,674
wholesale: 45,782
1990 revenues: retail: $15,460,000
wholesale: $3,284,000
established 1909

Meade, City of*
132 S. Fowler Ave.
Meade, Kan. 67864
(316) 873-2091
Dennis Eckhoff, City Administrator
customers: 907
nameplate capacity (kW): oil: 8,700
1990 MWh generated: 11,004
1990 MWh purchased: 2,208
1990 MWh sold: 10,428
1990 revenues: $894,000
established 1910

Minneapolis, City of
218 N. Rock St.
Minneapolis, Kan. 67467
(913) 392-2176
Lowell Parrish, Clerk/Administrator
customers: 1,050
nameplate capacity (kW): gas: 7,800;
oil: 2,400
1990 MWh generated: 2,294
1990 MWh purchased: 11,588
1990 MWh sold: 11,575
1990 revenues: $751,000
established 1921

Montezuma, City of
Box 37
Montezuma, Kan. 67867
(316) 846-2264
Dwight Watson, City Superintendent
customers: 400
1990 MWh generated: 0
1990 MWh purchased: 6,000
1990 MWh sold: 6,000
1990 revenues: $506,000
established 1921

Moran, City of
Box 236
Moran, Kan. 66755
(316) 237-4301
Robert Rhodes, Superintendent
customers: 288
1990 MWh generated: 0
1990 MWh purchased: 3,969
1990 MWh sold: 3,420
1990 revenues: $278,000
established 1900

Morrill, City of
Box 146
Morrill, Kan. 66515
(913) 459-2231

KANSAS *(continued)*

Greg Duryea, Utility Superintendent
customers: 153
1990 MWh generated: 0
1990 MWh purchased: 1,294
1990 MWh sold: 1,140
1990 revenues: $88,000
established 1927

Moundridge, City of
Box 636
Moundridge, Kan. 67107
(316) 345-8246
Norman Unruh, Utility Superintendent
customers: 778
1990 MWh generated: 0
1990 MWh purchased: 15,598
1990 MWh sold: 14,433
1990 revenues: $1,004,000
established 1909

Mount Hope, City of
112 W. Main, Box 56
Mount Hope, Kan. 67108
(316) 667-2211
Chris Rasmussen, Superintendent
customers: 343
1990 MWh generated: 0
1990 MWh purchased: 4,333
1990 MWh sold: 4,015
1990 revenues: $370,000
established 1920

Mulberry Municipal Light Plant
Box 206
Mulberry, Kan. 66756
(316) 764-3815
Jim Scholes, Superintendent
customers: 295
1990 MWh generated: 0
1990 MWh purchased: 2,513
1990 MWh sold: 2,107
1990 revenues: $167,000
established 1915

Mulvane, City of*
N. Second St., Box 211
Mulvane, Kan. 67110
(316) 777-1143
Gary Rambo, Superintendent
customers: 1,843
nameplate capacity (kW): gas: 1,360; oil: 4,930
1990 MWh generated: 450
1990 MWh purchased: 27,535
1990 MWh sold: 25,719
1990 revenues: $1,908,000
established 1902

Muscotah, City of
City Hall
Muscotah, Kan. 66058
(913) 872-3585
Debbie Liggett, City Clerk
customers: 101
1990 MWh generated: 0
1990 MWh purchased: 721
1990 MWh sold: 687
1990 revenues: $58,000

Neodesha, City of
102 S. Fourth St.
Neodesha, Kan. 66757
(316) 325-2925
Terry L. Johnson, Superintendent
customers: 1,696
nameplate capacity (kW): oil: 8,150
1990 MWh generated: 288
1990 MWh purchased: 27,406
1990 MWh sold: 27,510
1990 revenues: $2,520,000
established 1922

Norton, City of*
301 E. Washington St.
Norton, Kan. 67654
(913) 877-2255
Allen Loyd, City Administrator
customers: 1,762
nameplate capacity (kW): gas: 8,750; oil: 2,500
1990 MWh generated: 1,922
1990 MWh purchased: 23,217
1990 MWh sold: 20,249
1990 revenues: $1,619,000
established 1912

Oakley, City of*
209 Hudson Ave.
Oakley, Kan. 67748
(913) 672-3135
Frank Salisbury, City Superintendent
customers: 1,245
nameplate capacity (kW): oil: 8,165
1990 MWh generated: -951
1990 MWh purchased: 18,230
1990 MWh sold: 14,245
1990 revenues: $1,014,000
established 1910

Oberlin, City of
107 W. Commercial St.
Oberlin, Kan. 67749
(913) 475-2217
Jack O'Toole, City Superintendent
customers: 1,257
nameplate capacity (kW): gas: 6,975
1990 MWh generated: 0
1990 MWh purchased: 17,639
1990 MWh sold: 13,659
1990 revenues: $1,241,000
established 1901

Osage City, City of
Fifth & Main Sts.
Osage City, Kan. 66523
(913) 528-3851
Donald Brenner, Electrical Superintendent
customers: 1,442
nameplate capacity (kW): oil: 10,140
1990 MWh generated: 3,049
1990 MWh purchased: 18,701
1990 MWh sold: 19,640
1990 revenues: $1,306,000
established 1890

Osawatomie, City of*
Main at Fifth, Box 37
Osawatomie, Kan. 66064
(913) 755-4138
Tom Sipe, City Manager
customers: 1,952
nameplate capacity (kW): oil: 7,000
1990 MWh generated: 299
1990 MWh purchased: 24,796
1990 MWh sold: 21,014
1990 revenues: $1,667,000
established 1913

Osborne, City of
133 W. Main St.
Osborne, Kan. 67473
(913) 346-2722
Norman B. Christie, Light Plant Superintendent
customers: 1,102
nameplate capacity (kW): oil: 5,435
1990 MWh generated: 398
1990 MWh purchased: 12,359
1990 MWh sold: 12,239
1990 revenues: $928,000
established 1921

Ottawa, City of*
Fourth & Walnut Sts.
Ottawa, Kan. 66067
(913) 242-2190
James Bradley, Director of Utilities
customers: 5,299
nameplate capacity (kW): gas: 11,500; oil: 19,250
1990 MWh generated: 2,466
1990 MWh purchased: 86,979
1990 MWh sold: 81,071
1990 revenues: $6,448,000
established 1906

Oxford, City of
121 S. Sumner St.
Oxford, Kan. 67119
(316) 455-2223
Robert Spoon, Superintendent
customers: 634
nameplate capacity (kW): unavailable
1990 MWh generated: 143
1990 MWh purchased: 8,435
1990 MWh sold: 7,120
1990 revenues: $571,000
established 1923

Pomona, City of
Box 67
Pomona, Kan. 66076
(913) 566-3522
Carl E. Waltman, Electric Superintendent
customers: 515
1990 MWh generated: 0
1990 MWh purchased: 5,491
1990 MWh sold: 5,066
1990 revenues: $363,000
established 1914

Pratt, City of
321 W. Tenth St., Box 807
Pratt, Kan. 67124
(316) 672-2022
Arlyn Bradford, Superintendent
customers: 3,826
nameplate capacity (kW): oil: 23,500
1990 MWh generated: 41,190
1990 MWh purchased: 0
1990 MWh sold: retail: 63,856
wholesale: 1,728
1990 revenues: retail: $4,341,000
wholesale: $93,000
established 1910

Prescott, City of
Main St.
Prescott, Kan. 66767
(913) 471-4521
Leonard Fyock, Clerk
customers: 147
1990 MWh generated: 0
1990 MWh purchased: 1,287
1990 MWh sold: 1,225
1990 revenues: $117,000
established 1921

Radium, City of
Box 162, Route 2
Radium, Kan. 67571
(316) 982-4695
John Paden, City Clerk
customers: 20
1990 MWh generated: 0
1990 MWh purchased: 703
1990 MWh sold: 657
1990 revenues: $46,000
established 1935

Robinson, City of
Box 36
Robinson, Kan. 66532
(913) 544-6537
Loren Davenport, Mayor
customers: 167
1990 MWh generated: 0
1990 MWh purchased: 1,524
1990 MWh sold: 1,301
1990 revenues: $102,000

Russell, City of
Eighth & Maple Sts., Box 112
Russell, Kan. 67665
(913) 483-6311
Earl Homewood, Director
customers: 3,216
nameplate capacity (kW): gas: 18,143; oil: 5,000
1990 MWh generated: 39,863
1990 MWh purchased: 21,198
1990 MWh sold: 54,242
1990 revenues: $3,933,000
established 1910

Sabetha Municipal Light Department
Box 187
Sabetha, Kan. 66534
(913) 284-2158
Ted Hayden, City Administrator
customers: 1,527
nameplate capacity (kW): oil: 15,036
1990 MWh generated: 3,013
1990 MWh purchased: 32,094
1990 MWh sold: 32,483
1990 revenues: $1,902,000
established 1901

St. Francis, City of
Box 517
St. Francis, Kan. 67756
(913) 332-3031
Gary L. Pittman, Plant Foreman
customers: 1,045
nameplate capacity (kW): oil: 5,900
1990 MWh generated: 50
1990 MWh purchased: 10,012
1990 MWh sold: 8,408
1990 revenues: $924,000
established 1914

St. John, City of
P.O. Box 367
St. John, Kan. 67576
(316) 549-3800
Pam Corby, City Administrator
customers: 861
nameplate capacity (kW): oil: 5,000
1990 MWh generated: 1,203
1990 MWh purchased: 8,937
1990 MWh sold: 8,904
1990 revenues: $832,000
established 1910

St. Marys, City of
Box 146
St. Marys, Kan. 66536
(913) 437-2311
Ross Vander Hamm, City Manager
customers: 854
1990 MWh generated: 0
1990 MWh purchased: 12,660
1990 MWh sold: 12,083
1990 revenues: $1,018,000
established 1908

Savonburg, City of
Savonburg, Kan. 66772
(316) 754-3278
Earlene Johnson, Clerk
customers: 56
1990 MWh generated: 0
1990 MWh purchased: 401
1990 MWh sold: 303
1990 revenues: $34,000
established 1902

Scranton, City of
Box 218
Scranton, Kan. 66537
(913) 793-2814
Ernest L. Moslander, Administrative Assistant
customers: 305
1990 MWh generated: 0
1990 MWh purchased: 4,324
1990 MWh sold: 3,396
1990 revenues: $250,000
established 1919

Seneca, City of
531 Main St.
Seneca, Kan. 66538
(913) 336-2747
Robert Ackerman, Clerk
customers: 1,190

---

* Member, American Public Power Association
† Member, Demonstration of Energy-Efficient Developments Program

KANSAS *(continued)*

1990 MWh generated: 0
1990 MWh purchased: 18,266
1990 MWh sold: 16,533
1990 revenues: $1,208,000
established 1903

Severance, City of
RR 1, Box 102
Severance, Kan. 66081
(913) 359-6696
Phyllis Simmons, City Clerk
customers: 55
1990 MWh generated: 0
1990 MWh purchased: 427
1990 MWh sold: 347
1990 revenues: $21,000

Seward, City of
Box 256
Seward, Kan. 67577
(316) 458-5931
Janice Becker, Clerk
customers: 45
1990 MWh generated: 0
1990 MWh purchased: 383
1990 MWh sold: 383
1990 revenues: $24,000

Sharon Springs, City of*
Box 490
Sharon Springs, Kan. 67758
(913) 852-4232
Pete Sharp, City Superintendent
customers: 627
nameplate capacity (kW): oil: 3,117
1990 MWh generated: 0
1990 MWh purchased: 5,977
1990 MWh sold: 5,072
1990 revenues: $600,000
established 1918

Stafford, City of
112 W. Broadway
Stafford, Kan. 67578
(316) 234-5561
Bill Kirkpatrick, Supervisor
customers: 828
nameplate capacity (kW): oil: 5,100
1990 MWh generated: 1,647
1990 MWh purchased: 8,118
1990 MWh sold: 8,333
1990 revenues: $683,000
established 1910

Sterling, City of
114 N. Broadway St.
Sterling, Kan. 67579
(316) 278-3411
Randy Riggs, City Manager
customers: 1,155
nameplate capacity (kW): oil: 6,155
1990 MWh generated: 3,226
1990 MWh purchased: 12,131
1990 MWh sold: 12,664
1990 revenues: $980,000
established 1916

Stockton, City of
Box 512
Stockton, Kan. 67669
(913) 425-6525
Myron L. Chapel, City Manager
customers: 1,066
nameplate capacity (kW): gas: 6,294
1990 MWh generated: 672
1990 MWh purchased: 16,296
1990 MWh sold: 15,307
1990 revenues: $1,266,000
established 1908

Summerfield, Town of
Summerfield, Kan. 66541
(913) 244-6258
Donald Stueve, Mayor
customers: 154
1990 MWh generated: 0
1990 MWh purchased: 1,253
1990 MWh sold: 912
1990 revenues: $62,000

Toronto, City of
Box 235
Toronto, Kan. 66777-0235
(316) 637-2605
Orray Kasper, Mayor
customers: 262
1990 MWh generated: 0
1990 MWh purchased: 1,926
1990 MWh sold: 1,572
1990 revenues: $131,000
established 1917

Troy, City of
137 W. Walnut
Troy, Kan. 66087
(913) 985-2265
Paul Dittemore, City Supervisor
customers: 644
1990 MWh generated: 0
1990 MWh purchased: 6,132
1990 MWh sold: 5,633
1990 revenues: $485,000
established 1911

Udall, City of
110 S. Main St.
Udall, Kan. 67146
(316) 782-3512
Larry B. Dale, City Superintendent
customers: 360
1990 MWh generated: 0
1990 MWh purchased: 4,487
1990 MWh sold: 4,329
1990 revenues: $372,000
established 1939

Vermillion, City of
Second & Main Sts., Box 127
Vermillion, Kan. 66544
(913) 382-6224
Robert F. Lee, Mayor
customers: 94
1990 MWh generated: 0
1990 MWh purchased: 761
1990 MWh sold: 609
1990 revenues: $59,000

Wamego, City of*
430 Lincoln St., Box 86
Wamego, Kan. 66547
(913) 456-9119
Mark Arbuthnot, City Manager
customers: 1,691
nameplate capacity (kW): oil: 8,100
1990 MWh generated: 3,325
1990 MWh purchased: 24,821
1990 MWh sold: 24,482
1990 revenues: $1,851,000
established 1908

Washington Municipal Power Plant
Park Road, Box 296
Washington, Kan. 66968
(913) 325-2231
Ivan W. Hinkle, Plant Supervisor
customers: 782
nameplate capacity (kW): oil: 9,035
1990 MWh generated: 551
1990 MWh purchased: 10,256
1990 MWh sold: 8,706
1990 revenues: $652,000
established 1938

Waterville, City of
204 E. Front
Waterville, Kan. 66548
(913) 785-2367
Alson C. Tryon, Superintendent
customers: 424
1990 MWh generated: 0
1990 MWh purchased: 4,380
1990 MWh sold: 3,679
1990 revenues: $328,000

Wathena, City of
206 St. Joseph St., Box 27
Wathena, Kan. 66090
(913) 989-4711
Laralee L. Miller, Clerk
customers: 689
1990 MWh generated: 0
1990 MWh purchased: 6,875
1990 MWh sold: 6,132
1990 revenues: $588,000
established 1937

Webber, City of
Webber, Kan. 66970
(913) 753-4401
Norma Thomas, City Clerk
customers: unavailable
1990 MWh generated: unavailable
1990 MWh purchased: unavailable
1990 MWh sold: unavailable
1990 revenues: unavailable
established 1937

Wellington Municipal Utilities*
317 S. Washington St.
Wellington, Kan. 67152
(316) 326-3871
Director of Engineering
customers: 4,374
nameplate capacity (kW): gas: 41,000
1990 MWh generated: 13,725
1990 MWh purchased: 76,949
1990 MWh sold: 83,052
1990 revenues: $6,311,000
established 1902

Winfield, City of*
200 E. Ninth St., Box 646
Winfield, Kan. 67156
(316) 221-3060
Richard L. Craft, Director of Electric Utility
customers: 7,756
nameplate capacity (kW): gas: 56,000
1990 MWh generated: 46,217
1990 MWh purchased: 167,751
1990 MWh sold: retail: 193,597
wholesale: 4,487
1990 revenues: retail: $10,847,000
wholesale: $210,000
established 1904

Kentucky

(Systems designated (TVA) are distributors of Tennessee Valley Authority power and purchase all of their power from TVA.)

Barbourville, City of
Daniel Boone Drive, Box 1600
Barbourville, Ky. 40906
(606) 546-3187
Randell Young, Manager
customers: 3,458
1990 MWh generated: 0
1990 MWh purchased: 70,888
1990 MWh sold: 67,079
1990 revenues: $3,478,000
established 1938

Bardstown, City of*
220 N. Fifth St., Box 368
Bardstown, Ky. 40004
(502) 348-5947
Lawrence A. Hamilton, City Engineer
customers: 3,037
1990 MWh generated: 0
1990 MWh purchased: 108,559
1990 MWh sold: 99,789
1990 revenues: $5,368,000
established 1895

Bardwell, City of
Box 277
Bardwell, Ky. 42023
(502) 628-3833
Donald M. Terry, Manager
customers: 541
1990 MWh generated: 0
1990 MWh purchased: 7,123
1990 MWh sold: 6,373
1990 revenues: $360,000
established 1941

Benham, City of
Box E
Benham, Ky. 40807
(606) 848-5506
Jimmy Dale Hensley, Chairman, Power Board
customers: 321
1990 MWh generated: 0
1990 MWh purchased: 5,736
1990 MWh sold: 5,212
1990 revenues: $282,000

Benton Electric System*
Box 196
Benton, Ky. 42025
(502) 527-3651
Larry Spears, Manager
customers: 2,221
1990 MWh generated: 0
1990 MWh purchased: 53,343 (TVA)
1990 MWh sold: 51,527
1990 revenues: $3,334,000
established 1945

Bowling Green Municipal Utilities
801 Center St., Box 10300
Bowling Green, Ky. 42102-7300
(502) 782-1200
Eddie Beck, General Manager
customers: 19,657
1990 MWh generated: 0
1990 MWh purchased: 619,845 (TVA)
1990 MWh sold: 588,833
1990 revenues: $34,000,000
established 1942

Corbin Utilities Commission
901 S. Main St.
Corbin, Ky. 40701
(606) 528-4026
George P. Rains, General Manager
customers: 3,748
1990 MWh generated: 0
1990 MWh purchased: 65,088
1990 MWh sold: 56,377
1990 revenues: $3,032,000
established 1948

Falmouth, City of
212 Main St.
Falmouth, Ky. 41040
(606) 654-6937
Pete Lawson, Superintendent
customers: 1,132
1990 MWh generated: 0
1990 MWh purchased: 17,469
1990 MWh sold: 17,469
1990 revenues: $940,000

Frankfort Electric & Water Plant Board*
315 W. Second St.
Frankfort, Ky. 40601
(502) 223-3401
Warner J. Caines, General Manager
customers: 17,139
1990 MWh generated: 0
1990 MWh purchased: 545,440
1990 MWh sold: 523,532
1990 revenues: $20,811,000
established 1943

Franklin Electric Plant Board†*
309 N. High St., Box 349
Franklin, Ky. 42135
(502) 586-4441
Billy C. Austin, Superintendent

---

* Member, American Public Power Association
† Member, Demonstration of Energy-Efficient Developments Program

customers: 4,538
1990 MWh generated: 0
1990 MWh purchased: 179,663 (TVA)
1990 MWh sold: 173,100
1990 revenues: $9,205,000
established 1943

Fulton Electric System†
501 Walnut St., Box 130
Fulton, Ky. 42041
(502) 472-1362
David Moss, Manager
customers: 1,859
1990 MWh generated: 0
1990 MWh purchased: 55,976
1990 MWh sold: 53,508
1990 revenues: $3,066,000
established 1962

Glasgow, City of†*
100 Mallory Drive, Box 666
Glasgow, Ky. 42141
(502) 651-8341
William J. Ray, Superintendent
customers: 6,049
1990 MWh generated: 0
1990 MWh purchased: 255,000 (TVA)
1990 MWh sold: 245,000
1990 revenues: $13,881,000
established 1962

Henderson City Utility Commission*
419 Water St., Box 8
Henderson, Ky. 42420
(502) 826-2726
Steven W. Kirchoff, General Manager
customers: 10,669
nameplate capacity (kW): coal: 408,300; gas: 2,460
1990 MWh generated: 1,838,887
1990 MWh purchased: 20,139
1990 MWh sold: retail: 343,388
wholesale: 1,495,663
1990 revenues: retail: $11,429,000
wholesale: $11,371,000
established 1897

Hickman, City of
Box 228
Hickman, Ky. 42050
(502) 236-3951
James H. Eakes, Manager
customers: 1,327
1990 MWh generated: 0
1990 MWh purchased: 21,454 (TVA)
1990 MWh sold: 19,650
1990 revenues: $1,401,000
established 1965

Hopkinsville Electric System†*
1820 E. Ninth St., Box 544
Hopkinsville, Ky. 42241-0544
(502) 887-4210
Austin B. Carroll, General Manager
customers: 12,894
1990 MWh generated: 0
1990 MWh purchased: 378,673 (TVA)
1990 MWh sold: 364,441
1990 revenues: $18,917,000
established 1942

Madisonville, City of*
37 E. Center St., Box 704
Madisonville, Ky. 42431
(502) 824-2105
Lloyd Merrell, City Administrative Officer
customers: 8,136
1990 MWh generated: 0
1990 MWh purchased: 250,804
1990 MWh sold: 243,984
1990 revenues: $11,945,000
established 1922

Mayfield Electric & Water System*
301 E. Broadway St.
Mayfield, Ky. 42066
(502) 247-4661
James R. Gooch, General Superintendent
customers: 5,725
1990 MWh generated: 0
1990 MWh purchased: 128,095 (TVA)
1990 MWh sold: 121,167
1990 revenues: $7,302,000
established 1942

Monticello, City of*
615 Columbia Ave., Box 657
Monticello, Ky. 42633
(606) 348-8102
James H. McCune, Superintendent
customers: 3,510
1990 MWh generated: 0
1990 MWh purchased: 74,300 (TVA)
1990 MWh sold: 69,800
1990 revenues: $3,834,000
established 1954

Murray Electric†*
401 Olive St., Box 1095
Murray, Ky. 42071
(502) 753-5312
Ron Underwood, Superintendent
customers: 6,107
1990 MWh generated: 0
1990 MWh purchased: 219,731 (TVA)
1990 MWh sold: 214,332
1990 revenues: $11,767,000
established 1942

Nicholasville, City of
517 N. Main St.
Nicholasville, Ky. 40356
(606) 885-9473
David House, General Manager
customers: 4,538
1990 MWh generated: 0
1990 MWh purchased: 117,459
1990 MWh sold: 108,965
1990 revenues: $4,622,000
established 1900

Olive Hill, City of
Box 460
Olive Hill, Ky. 41164
(606) 286-2192
Alice Fielding, Utilities Clerk
customers: 1,357
1990 MWh generated: 0
1990 MWh purchased: 22,594
1990 MWh sold: 19,569
1990 revenues: $968,000

Owensboro Municipal Utilities*
115 E. Fourth St. (zip 42303), Box 806
Owensboro, Ky. 42302
(502) 926-3200
Robert M. Carper, General Manager
customers: 24,858
nameplate capacity (kW): coal: 416,000
1990 MWh generated: 2,225,572
1990 MWh purchased: 9,348
1990 MWh sold: retail: 680,490
wholesale: 1,528,433
1990 revenues: retail: $22,362,000
wholesale: $22,608,000
established 1900

Paducah Power System†*
1400 Broadway St., Box 180
Paducah, Ky. 42001
(502) 442-2711
Olin W. Bryant, General Manager
customers: 21,135
1990 MWh generated: 0
1990 MWh purchased: 505,074 (TVA)
1990 MWh sold: 480,199
1990 revenues: $29,055,000
established 1961

Paris, City of*
800 Pleasant St.
Paris, Ky. 40361
(606) 987-2110
Robert Casher, Assistant City Manager
customers: 2,467
nameplate capacity (kW): oil: 11,767
1990 MWh generated: 682
1990 MWh purchased: 33,743
1990 MWh sold: 33,308
1990 revenues: $1,533,000
established 1931

Princeton, City of†*
Box 608
Princeton, Ky. 42445
(502) 365-2031
Walter R. Smith, Superintendent
customers: 3,809
1990 MWh generated: 0
1990 MWh purchased: 70,381 (TVA)
1990 MWh sold: 65,734
1990 revenues: $4,653,000
established 1961

Providence, City of
North Willow Street, Box 128
Providence, Ky. 42450
(502) 667-5463
Charlotte B. Little, Clerk
customers: 1,808
1990 MWh generated: 0
1990 MWh purchased: 30,214
1990 MWh sold: 26,588
1990 revenues: $1,647,000
established 1921

Russellville Electric Plant Board†*
Box 418
Russellville, Ky. 42276
(502) 726-2466
Larry S. Wilcutt, Superintendent
customers: 3,921
1990 MWh generated: 0
1990 MWh purchased: 106,617 (TVA)
1990 MWh sold: 101,740
1990 revenues: $6,085,000
established 1942

Vanceburg, City of*
611 Front St., Box 489
Vanceburg, Ky. 41179
(606) 796-2641
Donald Burton, Superintendent
customers: 3,332
1990 MWh generated: 0
1990 MWh purchased: 40,690
1990 MWh sold: 35,347
1990 revenues: $1,863,000
established 1939

Williamstown Utility Commission
Main St.
Williamstown, Ky. 41097
(606) 824-3352
Jeffrey W. Clemons, Superintendent
customers: 1,333
1990 MWh generated: 0
1990 MWh purchased: 38,860
1990 MWh sold: 35,455
1990 revenues: $2,395,000
established 1925

Louisiana

Abbeville, City of*
101 N. State St.
Abbeville, La. 70510
(318) 893-8550
R. Brady Broussard, Mayor
customers: 4,728
1990 MWh generated: 0
1990 MWh purchased: 102,846
1990 MWh sold: 94,029
1990 revenues: $7,722,000
established 1850

Alexandria, City of*
Box 71
Alexandria, La. 71309
(318) 449-5008
A. E. Craig Jr., Director of Utilities
customers: 23,798
nameplate capacity (kW): gas: 175,000
1990 MWh generated: 10,230
1990 MWh purchased: 596,564
1990 MWh sold: 538,406
1990 revenues: $38,544,000

Boyce, Town of
Box 146
Boyce, La. 71409
(318) 793-2175
Lynn Basco, Superintendent
customers: 456
1990 MWh generated: 0
1990 MWh purchased: 7,147
1990 MWh sold: 5,992
1990 revenues: $440,000

Erath, Town of*
115 W. Edwards
Erath, La. 70533
(318) 937-8401
Richard DuBois, Mayor
customers: 850
1990 MWh generated: 0
1990 MWh purchased: 14,443
1990 MWh sold: 13,073
1990 revenues: $1,274,000

Gueydan, Town of*
600 Main St.
Gueydan, La. 70542
(318) 536-9415
Sherman Trahan, Supervisor
customers: 807
1990 MWh generated: 0
1990 MWh purchased: 13,636
1990 MWh sold: 12,421
1990 revenues: $1,132,000
established 1898

Jonesville, City of*
Box 428
Jonesville, La. 71343
(318) 339-8596
Sim Nichols, Superintendent
customers: 1,290
1990 MWh generated: 0
1990 MWh purchased: 22,344
1990 MWh sold: 20,383
1990 revenues: $1,842,000

Kaplan, City of*
511 N. Cushing Ave.
Kaplan, La. 70548
(318) 643-8602
Newton Bercier, Superintendent
customers: 2,092
1990 MWh generated: 0
1990 MWh purchased: 45,395
1990 MWh sold: 41,275
1990 revenues: $3,940,000

Lafayette, City of†*
1210 Walker Road, Box 4017-C
Lafayette, La. 70502
(318) 268-5800
Don Ouchley, Director of Utilities
customers: 45,343
nameplate capacity (kW): coal: 279,000; gas: 379,100
1990 MWh generated: 384,926
1990 MWh purchased: 1,822,287
1990 MWh sold: retail: 1,260,420
wholesale: 829,178
1990 revenues: retail: $75,296,000
wholesale: $31,303,000
established 1897

Lafayette Public Power Authority
1210 Walker Road, Box 4017-C
Lafayette, La. 70506
(318) 268-5800
Don Ouchley, Director of Utilities
customers: wholesale only
nameplate capacity (kW): not available
1990 MWh generated: 1,303,503
1990 MWh purchased: 0
1990 MWh sold: 1,253,368

LOUISIANA *(continued)*

1990 revenues: $47,254,000

Louisiana Energy and Power Authority*
315 Johnston St.
Lafayette, La. 70501
(318) 269-4046
Sylvan Richard, Manager
customers: wholesale only
nameplate capacity (kW): coal: 111,600
1990 MWh generated: 882,203
1990 MWh purchased: 598,435
1990 MWh sold: wholesale: 1,420,869
1990 revenues: wholesale: $62,643,000
established 1980
(see expanded joint action agency section, page 140)

Minden Light & Water Department*
Box 580
Minden, La. 71119
(318) 377-2144
Gordon M. Bartage, Superintendent
customers: 6,187
nameplate capacity (kW): gas: 39,048
1990 MWh generated: 161
1990 MWh purchased: 121,789
1990 MWh sold: 109,681
1990 revenues: $8,366,000

Morgan City, City of*
Avoca Road, Box 1218
Morgan City, La. 70381
(504) 385-1770
Bill Cefalu, Utility Director
customers: 6,288
nameplate capacity (kW): gas: 70,300
1990 MWh generated: 0
1990 MWh purchased: 164,661
1990 MWh sold: 152,074
1990 revenues: $10,105,000

Natchitoches, City of*
314 Amulet St., Box 37
Natchitoches, La. 71457
(318) 352-2901
Robert J. Tynes, Director of Utilities
customers: 6,460
nameplate capacity (kW): gas: 53,000
1990 MWh generated: 0
1990 MWh purchased: 193,507
1990 MWh sold: 167,792
1990 revenues: $10,689,000

New Roads, City of*
211 W. Main St., Box 280
New Roads, La. 70760-0280
(504) 638-5360
J. B. Laurent, City Manager
customers: 1,945
nameplate capacity (kW): gas: 9,525
1990 MWh generated: -361
1990 MWh purchased: 35,151
1990 MWh sold: 31,775
1990 revenues: $2,445,000
established 1906

Plaquemine City Light & Water*
Box 777
Plaquemine, La. 70764
(504) 687-2461
Ronnie Rockforte, Superintendent
customers: 5,155
nameplate capacity (kW): gas: 44,000
1990 MWh generated: 0
1990 MWh purchased: 73,481
1990 MWh sold: 67,822
1990 revenues: $6,248,000

established 1949

Rayne, City of*
201 Third Ave., Box 69
Rayne, La. 70578
(318) 334-5870
Pierre Gary, Superintendent
customers: 3,619
nameplate capacity (kW): gas: 11,200
1990 MWh generated: 0
1990 MWh purchased: 59,213
1990 MWh sold: 52,601
1990 revenues: $4,349,000

Ruston, City of*
Box 280
Ruston, La. 71273-0280
(318) 255-0800
Ronnie Loyd, Director of Utilities
customers: 8,356
nameplate capacity (kW): gas: 90,515
1990 MWh generated: 158,354
1990 MWh purchased: 54,419
1990 MWh sold: 187,340
1990 revenues: $10,394,000
established 1897

St. Martinville, City of*
120 New Market St., Box 379
St. Martinville, La. 70582
(318) 394-5591
Wilson Dore, Superintendent
customers: 2,771
1990 MWh generated: 0
1990 MWh purchased: 46,993
1990 MWh sold: 42,570
1990 revenues: $2,998,000

Terrebonne Parish Utilities Department*
Box 6097
Houma, La. 70361
(504) 873-6755
Thomas K. Bourg, Director of Utilities
customers: 8,663
nameplate capacity (kW): gas: 99,430
1990 MWh generated: 149,340
1990 MWh purchased: 225,642
1990 MWh sold: retail: 208,103
wholesale: 149,340
1990 revenues: retail: $14,956,000
wholesale: $4,642,000
established 1898

Vidalia, Town of*
409 Texas St.
Vidalia, La. 71373
(318) 336-5206
Guy Thompson, Superintendent
customers: 2,181
1990 MWh generated: 0
1990 MWh purchased: 56,803
1990 MWh sold: 53,430
1990 revenues: $3,852,000

Vinton, City of*
1200 Horridge St.
Vinton, La. 70668
(318) 589-7453
Raymond Guillory, Superintendent of Public Works
customers: 1,524
1990 MWh generated: 0
1990 MWh purchased: 23,815
1990 MWh sold: 21,018
1990 revenues: $1,994,000

Welsh, City of*
Box 786
Welsh, La. 70591
(318) 734-2231
Robert J. Louviere, Superintendent
customers: 1,527
nameplate capacity (kW): oil: 560
1990 MWh generated: 0
1990 MWh purchased: 24,260
1990 MWh sold: 24,185
1990 revenues: $1,518,000

Winnfield, City of*
Box 509
Winnfield, La. 71483
(318) 628-2744
Dorman Guilliams, Public Works Director
customers: 3,118
1990 MWh generated: 0
1990 MWh purchased: 66,918
1990 MWh sold: 62,287
1990 revenues: $4,034,000
established 1945

Maine

Houlton Water Co.†*
21 Bangor St., Box 726
Houlton, Maine 04730
(207) 532-2250
John Clark, General Manager
customers: 4,831
1990 MWh generated: 0
1990 MWh purchased: 85,019
1990 MWh sold: 78,556
1990 revenues: $6,266,000
established 1880

Kennebunk Light & Power
4 Factory Pasture Lane
Kennebunk, Maine 04043
(207) 985-3311
Chester F. Oiler, Treasurer/General Manager
customers: 4,315
nameplate capacity (kW): unavailable
1990 MWh generated: 2,859
1990 MWh purchased:
from utilities: 82,320
from nonutilities: 51
1990 MWh sold: 82,180
1990 revenues: $6,340,000
established 1893

Madison, Town of
26 Weston Ave.
Madison, Maine 04950
(207) 696-4401
George D. Stoutamyer, Superintendent
customers: 2,247
nameplate capacity (kW): hydro: 450
1990 MWh generated: 2,200
1990 MWh purchased: 24,700
1990 MWh sold: 24,900
1990 revenues: $2,162,000
established 1897

Matinicus Plantation Electric Co.
Matinicus, Maine 04851
(207) 366-3970
Clayton L. Philbrook, Business Manager
customers: 105
nameplate capacity (kW): oil: 315
1990 MWh generated: 247
1990 MWh purchased: 0
1990 MWh sold: 183
1990 revenues: $73,000
established 1976

Van Buren Light & Power District
67 Main St., Box 128
Van Buren, Maine 04785
(207) 868-3321
Skip Dumhis, Manager
customers: 1,851
1990 MWh generated: 0
1990 MWh purchased: 15,527
1990 MWh sold: 14,491
1990 revenues: $1,431,000
established 1917

Maryland

Berlin, Town of*
10 William St.
Berlin, Md. 21811
(410) 641-2770
Jean S. Holloway, Administrative Director
customers: 1,522
nameplate capacity (kW): oil: 4,692
1990 MWh generated: 2,027
1990 MWh purchased: 34,205
1990 MWh sold: 34,815
1990 revenues: $2,562,000
established 1919

Easton Utilities Commission†*
142 N. Harrison St.
Easton, Md. 21601
(410) 822-6110
Roger C. Judd, General Manager
customers: 7,264
nameplate capacity (kW): gas: 17,860; oil: 41,250
1990 MWh generated: 33,485
1990 MWh purchased: 0
1990 MWh sold: retail: 180,612
wholesale: 6,578
1990 revenues: retail: $12,141,000
wholesale: $527,000
established 1914

Hagerstown Light Department*
425 E. Baltimore St.
Hagerstown, Md. 21740-6105
(301) 790-2600
Terry L. Weaver, Utility Manager
customers: 17,369
nameplate capacity (kW): oil: 36,000
1990 MWh generated: 0
1990 MWh purchased: 295,968
1990 MWh sold: 283,497
1990 revenues: $14,810,000
established 1918

Thurmont Municipal Light Co.
10 Frederick Road, Box 385
Thurmont, Md. 21788
(301) 271-7872
Marion W. Rice, Superintendent of Public Works
customers: 1,819
1990 MWh generated: 0
1990 MWh purchased: 49,812
1990 MWh sold: 47,554
1990 revenues: $1,264,000
established 1910

Williamsport, Town of
Town Hall
Williamsport, Md. 21795
(301) 223-7711
Donna Spickler, Clerk/Treasurer
customers: 834
1990 MWh generated: 0
1990 MWh purchased: 17,555
1990 MWh sold: 14,430
1990 revenues: $470,000

Massachusetts

Ashburnham, Town of
86 Central St.
Ashburnham, Mass. 01430
(508) 827-4423
Robert W. Gould, Manager
customers: 2,751
1990 MWh generated: 0
1990 MWh purchased: 23,813
1990 MWh sold: 22,820
1990 revenues: $2,321,000
established 1907

Belmont, Town of*
450 Concord Ave.
Belmont, Mass. 02178
(617) 484-2780

---

* Member, American Public Power Association
† Member, Demonstration of Energy-Efficient Developments Program

Kenneth L. Conroy, Manager
customers: 10,573
1990 MWh generated: 0
1990 MWh purchased: 111,000
1990 MWh sold: 104,000
1990 revenues: $7,938,000
established 1898

Boylston, Town of†*
Sanatorium Road
Boylston, Mass. 01505
(508) 869-2626
H. B. White, Manager
customers: 1,675
1990 MWh generated: 0
1990 MWh purchased: 24,449
1990 MWh sold: 20,340
1990 revenues: $2,552,000
established 1912

Braintree, Town of*
44 Allen St.
Braintree, Mass. 02184
(617) 848-1130
Walter R. McGrath, General Manager
customers: 13,499
nameplate capacity (kW): oil: 81,400; other: 20,000
1990 MWh generated: 139,520
1990 MWh purchased: 344,756
1990 MWh sold: retail: 348,566
wholesale: 79,801
1990 revenues: retail: $30,051,000
wholesale: $3,638,000
established 1892

Chester Municipal Electric Light Department
Middlefield St.
Chester, Mass. 01011
(413) 354-7811
Warren Sypteras, Commission Chairman
customers: 605
1990 MWh generated: 0
1990 MWh purchased: 4,909
1990 MWh sold: 4,376
1990 revenues: $567,000
established 1926

Chicopee Municipal Lighting Plant†*
725 Front St., Box 405
Chicopee, Mass. 01021-0405
(413) 598-8311
Barry W. Soden, General Manager
customers: 24,266
nameplate capacity (kW): unavailable
1990 MWh generated: 111,919
1990 MWh purchased: 267,308
1990 MWh sold: retail: 359,361
wholesale: 37,820
1990 revenues: retail: $26,262,000
wholesale: $1,907,000
established 1894

Concord Municipal Light Plant†*
135 Keyes Road
Concord, Mass. 01742
(508) 371-6320
Daniel J. Sack, Superintendent
customers: 7,052
1990 MWh generated: 0
1990 MWh purchased: 158,101
1990 MWh sold: 148,867
1990 revenues: $11,815,000
established 1898

Danvers, Town of†*
2 Burroughs St.
Danvers, Mass. 01923
(508) 774-0005
Wayne P. Marquis, Electric Manager
customers: 10,479
1990 MWh generated: 0
1990 MWh purchased: 283,662
1990 MWh sold: retail: 278,905
wholesale: 8,667
1990 revenues: retail: $31,436,000
wholesale: $105,000
established 1889

Georgetown Municipal Light Department†*
Cor. Moulton & W. Main Sts.
Georgetown, Mass. 01833
(508) 352-5730
Edward I. Stanley, Manager
customers: 2,417
1990 MWh generated: 0
1990 MWh purchased: 27,219
1990 MWh sold: 27,245
1990 revenues: $3,203,000
established 1912

Groton Electric Light Department†*
Station Ave., Box 679
Groton, Mass. 01450
(508) 448-6655
Roger H. Beeltje, Manager
customers: 3,483
1990 MWh generated: 0
1990 MWh purchased:
from utilities: 34,875
from nonutilities: 5,261
1990 MWh sold: 38,599
1990 revenues: $4,362,000
established 1909

Groveland, City of*
23 School St.
Groveland, Mass. 01834
(508) 372-1671
Gerald Hill, Manager
customers: 2,062
1990 MWh generated: 0
1990 MWh purchased: 25,546
1990 MWh sold: 23,661
1990 revenues: $1,838,000
established 1907

Hingham Municipal Lighting Plant*
19 Elm St.
Hingham, Mass. 02043-2599
(617) 749-0134
Joseph R. Spadea Jr., Manager
customers: 8,542
1990 MWh generated: 0
1990 MWh purchased: 139,379
1990 MWh sold: retail: 128,643
wholesale: 152
1990 revenues: retail: $14,509,000
wholesale: $18,000
established 1894

Holden Municipal Light Department†*
94 Reservoir St.
Holden, Mass. 01520
(508) 829-0276
Edla Ann Bloom, Director
customers: 5,979
1990 MWh generated: 0
1990 MWh purchased: 94,644
1990 MWh sold: retail: 80,658
wholesale: 5,678
1990 revenues: retail: $8,205,000
wholesale: $205,000
established 1912

Holyoke, City of*
70 Suffolk St.
Holyoke, Mass. 01040
(413) 536-9300
George E. Leary, Manager
customers: 18,680
nameplate capacity (kW): hydro: 2,600; oil: 29,950
1990 MWh generated: 11,046
1990 MWh purchased: 315,049
1990 MWh sold: retail: 265,462
wholesale: 2,082
1990 revenues: retail: $26,550,000
wholesale: $195,000
established 1902

Hudson, Town of
49 Forest Ave.
Hudson, Mass. 01749
(508) 568-8736
Horst Huehmer, Manager
customers: 9,798
nameplate capacity (kW): oil: 20,300
1990 MWh generated: 13,264
1990 MWh purchased:
from utilities: 212,723
from nonutilities: 4,418
1990 MWh sold: retail: 251,133
wholesale: 6,648
1990 revenues: retail: $29,451,000
wholesale: $172,000
established 1897

Hull, Town of†*
15 Edgewater Road
Hull, Mass. 02045
(617) 925-0051
Roger Jackson, Manager
customers: 5,442
1990 MWh generated: 0
1990 MWh purchased: 41,400
1990 MWh sold: 36,092
1990 revenues: $5,113,000
established 1894

Ipswich, City of*
222 High St.
Ipswich, Mass. 01938
(508) 356-4331
Donald R. Stone Sr., Manager
customers: 5,932
nameplate capacity (kW): gas: 7,610; oil: 5,191
1990 MWh generated: 4,495
1990 MWh purchased: 79,029
1990 MWh sold: 75,634
1990 revenues: $6,335,000
established 1904

Littleton Electric Light Department†*
Whitcomb Ave.
Littleton, Mass. 01460
(508) 486-3104
Curtis J. Lanciani, General Manager
customers: 5,188
nameplate capacity (kW): oil: 1,010
1990 MWh generated: 5,682
1990 MWh purchased: 143,784
1990 MWh sold: retail: 190,717
wholesale: 11,365
1990 revenues: retail: $16,412,000
wholesale: $726,000
established 1912

Mansfield, Town of*
50 West St.
Mansfield, Mass. 02886
(508) 339-7011
John H. Larch, General Manager
customers: 7,593
1990 MWh generated: 0
1990 MWh purchased: 184,644
1990 MWh sold: retail: 162,883
wholesale: 6,000
1990 revenues: retail: $17,459,000
wholesale: $292,000
established 1903

Marblehead Municipal Light Department*
80 Commercial St., Box 369
Marblehead, Mass. 01945
(617) 631-0240
Richard L. Bailey, General Manager
customers: 10,631
nameplate capacity (kW): oil: 6,636
1990 MWh generated: 496
1990 MWh purchased: 86,178
1990 MWh sold: retail: 85,520
wholesale: 1,387
1990 revenues: retail: $8,310,000
wholesale: $63,000
established 1894

Massachusetts Municipal Wholesale Electric Co.*
Stony Brook Energy Center, Box 426
Ludlow, Mass. 01056
(413) 589-0141
David A. Sjosten, General Manager
customers: wholesale only
nameplate capacity (kW): nuclear: 78,950; oil: 170,000; other: 95,300
1990 MWh generated: 1,562,609
1990 MWh purchased:
from utilities: 1,337,691
from nonutilities: 54,543
1990 MWh sold: wholesale: 3,215,635
1990 revenues: wholesale: $257,680,000
established 1976
(see expanded joint action agency section, page 140)

Massachusetts Water Resources Authority
Charlestown Navy Yard
100 First Ave.
Boston, Mass. 02129
(617) 242-7110
Robert C. Casey, Senior Staff Engineer
customers: wholesale only
nameplate capacity (kW): unavailable
1990 MWh generated: 20,512
1990 MWh purchased: 136
1990 MWh sold: wholesale: 20,512
1990 revenues: wholesale: $409,000

Merrimac Municipal Light Department†*
10 W. Main St.
Merrimac, Mass. 01860
(508) 346-8311
Richard Kennedy, Manager
customers: 2,194
1990 MWh generated: 0
1990 MWh purchased: 22,074
1990 MWh sold: 20,078
1990 revenues: $1,591,000
established 1904

Middleborough Gas and Electric Department†*
32 S. Main St.
Middleborough, Mass. 02346
(508) 947-1371
John W. Dunfey, General Manager
customers: 10,909
1990 MWh generated: 0
1990 MWh purchased: 163,503
1990 MWh sold: retail: 155,925
wholesale: 155
1990 revenues: retail: $15,697,000
wholesale: $43,000
established 1893

Middleton, Town of†*
197 N. Main St., Box 68
Middleton, Mass. 01949
(508) 774-4313
Scott Edwards, Manager
customers: 2,182
1990 MWh generated: 0
1990 MWh purchased: 73,413
1990 MWh sold: retail: 67,574
wholesale: 89
1990 revenues: retail: $8,394,000
wholesale: $9,000
established 1914

North Attleboro, Town of†*
43 S. Washington St.
North Attleboro, Mass. 02760
(508) 699-7542
David I. Sweetland, Manager
customers: 10,759
nameplate capacity (kW): oil: 2,070
1990 MWh generated: 11,377
1990 MWh purchased: 136,090
1990 MWh sold: retail: 178,203
wholesale: 511
1990 revenues: retail: $15,442,000
wholesale: $101,000

established 1894

Norwood, Town of*
206 Central St.
Norwood, Mass. 02062
(617) 762-3203
Malcolm McDonald, Superintendent
customers: 14,432
1990 MWh generated: 0
1990 MWh purchased: 325,370
1990 MWh sold: 304,230
1990 revenues: $23,503,000
established 1907

Paxton, Town of†*
578 Pleasant St.
Paxton, Mass. 01612
(508) 756-9508
Harold L. Smith, Manager
customers: 1,517
1990 MWh generated: 0
1990 MWh purchased: 19,410
1990 MWh sold: retail: 16,112
wholesale: 32
1990 revenues: retail: $2,097,000
wholesale: $4,000
established 1913

Peabody Municipal Light Plant*
Box 3209
Peabody, Mass. 01961-3209
(508) 531-5975
Bruce Patten, Manager
customers: 21,540
nameplate capacity (kW): oil: 32,900
1990 MWh generated: 12,897
1990 MWh purchased:
from utilities: 336,660
from nonutilities: 659
1990 MWh sold: retail: 371,573
wholesale: 8,452
1990 revenues: retail: $39,914,000
wholesale: $237,000
established 1891

Princeton Municipal Light Department†*
4 Town Hall Drive, Box 247
Princeton, Mass. 01541
(508) 464-2815
Sharon A. Staz, Manager
customers: 1,432
nameplate capacity (kW): unavailable
1990 MWh generated: 315
1990 MWh purchased: 10,520
1990 MWh sold: 9,460
1990 revenues: $913,000
established 1912

Reading Municipal Light Department†*
25 Haven St., Box 150
Reading, Mass. 01867
(617) 944-1340
Leonard D. Rucker, General Manager
customers: 23,108
1990 MWh generated: 0
1990 MWh purchased: 601,998
1990 MWh sold: retail: 578,666
wholesale: 565
1990 revenues: retail: $45,382,000
wholesale: $62,000
established 1894

Rowley, Town of†*
47 Summer St.
Rowley, Mass. 01969
(508) 948-3992
G. Robert Merry, Manager
customers: 2,083
1990 MWh generated: 0
1990 MWh purchased: 22,505
1990 MWh sold: 20,605
1990 revenues: $1,937,000
established 1910

Russell Municipal Light Department
200 Main Street
Russell, Mass. 01071
(413) 862-4400
Fred Wojick, Manager
customers: 427
1990 MWh generated: 0
1990 MWh purchased: 4,272
1990 MWh sold: 3,852
1990 revenues: $367,000
established 1921

Shrewsbury's Electric Light Plant†*
100 Maple Ave.
Shrewsbury, Mass. 01545
(508) 845-4881
Thomas Josie, General Manager
customers: 11,081
nameplate capacity (kW): oil: 14,000
1990 MWh generated: 1,410
1990 MWh purchased: 245,516
1990 MWh sold: retail: 227,827
wholesale: 940
1990 revenues: retail: $21,534,000
wholesale: $80,000
established 1908

South Hadley, Town of
85 Main St.
South Hadley, Mass. 01075
(413) 536-1050
Wayne D. Doerpholz, Manager
customers: 7,032
1990 MWh generated: 0
1990 MWh purchased: 110,564
1990 MWh sold: retail: 114,366
wholesale: 1,563
1990 revenues: retail: $12,154,000
wholesale: $94,000
established 1914

Sterling Municipal Light Department*
50 Main St., Box 430
Sterling, Mass. 01564
(508) 422-8267
Mark V. Magyar, Manager
customers: 2,762
1990 MWh generated: 0
1990 MWh purchased:
from utilities: 37,067
from nonutilities: 15
1990 MWh sold: 31,287
1990 revenues: $4,037,000
established 1911

Taunton Municipal Lighting Plant†*
Box 870
Taunton, Mass. 02781
(508) 824-5844
Joseph M. Blain, General Manager
customers: 29,023
nameplate capacity (kW): gas: 118,000; oil: 28,300
1990 MWh generated: 257,144
1990 MWh purchased: 326,069
1990 MWh sold: retail: 427,997
wholesale: 134,262
1990 revenues: retail: $34,163,000
wholesale: $6,208,000
established 1897

Templeton Municipal Light Plant*
2 School St.
Baldwinville, Mass. 01436
(508) 939-5323
Gerald P. Skelton, Manager
customers: 2,627
1990 MWh generated: 0
1990 MWh purchased:
from utilities: 78,967
from nonutilities: 1,075
1990 MWh sold: 73,957
1990 revenues: $7,082,000
established 1906

Wakefield Municipal Light Department†*
9 Albion St., Box 190
Wakefield, Mass. 01880
(617) 246-6363
William J. Wallace, Manager
customers: 10,659
1990 MWh generated: 0
1990 MWh purchased: 149,470
1990 MWh sold: 138,322
1990 revenues: $14,698,000
established 1894

Wellesley, Town of*
455 Worcester St., Box 364
Wellesley, Mass. 02181
(617) 235-7600
Maurice R. Berdan, Director of Public Works
customers: 9,442
1990 MWh generated: 0
1990 MWh purchased: 203,900
1990 MWh sold: 188,000
1990 revenues: $15,344,000
established 1892

West Boylston Municipal Municipal Lighting Plant†*
4 Crescent St.
West Boylston, Mass. 01583
(508) 835-3681
John F. Scirpoli, Manager
customers: 2,774
1990 MWh generated: 0
1990 MWh purchased: 55,918
1990 MWh sold: 50,295
1990 revenues: $5,548,000
established 1910

Westfield Gas & Electric Light Department†*
100 Elm St., Box 990
Westfield, Mass. 01086
(413) 568-9171
Daniel Golubek, General Manager
customers: 16,048
1990 MWh generated: 0
1990 MWh purchased: 293,163
1990 MWh sold: retail: 270,543
wholesale: 7,637
1990 revenues: retail: $27,665,000
wholesale: $1,397,000
established 1899

Michigan

Baraga, Village of
801 US-41 S., Box 290
Baraga, Mich. 49908
(906) 353-6237
Hubie LeRue, System Supervisor
customers: 663
1990 MWh generated: 0
1990 MWh purchased: 7,517
1990 MWh sold: 7,517
1990 revenues: $354,000
established 1891

Bay City, City of
900 S. Water St.
Bay City, Mich. 48708
(517) 894-8344
Director of Electric
customers: 15,469
nameplate capacity (kW): unavailable
1990 MWh generated: 3,287
1990 MWh purchased: 224,987
1990 MWh sold: 216,064
1990 revenues: $14,066,000
established 1868

Charlevoix, City of*
210 State St.
Charlevoix, Mich. 49720
(616) 547-3270
Edward Whitley, Superintendent
customers: 3,515
1990 MWh generated: 0
1990 MWh purchased: 46,749
1990 MWh sold: 43,126
1990 revenues: $2,581,000
established 1900

Chelsea Department of Electric & Water
104 E. Middle St.
Chelsea, Mich. 48118
(313) 475-1771
H.L. (Jack) Meyers, Village Manager
customers: 1,715
1990 MWh generated: 0
1990 MWh purchased: 32,453
1990 MWh sold: 31,049
1990 revenues: $2,134,000
established 1898

Clinton, Village of
Box E
Clinton, Mich. 49236
(517) 456-4207
Kevin R. Cornish, Village Manager
customers: 1,279
nameplate capacity (kW): gas: 2,000; oil: 2,310
1990 MWh generated: 72
1990 MWh purchased: 30,217
1990 MWh sold: 29,093
1990 revenues: $2,332,000
established 1893

Coldwater Board of Public Utilities*
28 W. Chicago St., Box 469
Coldwater, Mich. 49036-0469
(517) 279-9531
Dwight Woodman, Director
customers: 5,801
nameplate capacity (kW): coal: 11,000; gas: 9,500; oil: 3,250
1990 MWh generated: 3,546
1990 MWh purchased: 134,073
1990 MWh sold: 127,687
1990 revenues: $9,838,000
established 1891

Croswell, City of
100 N. Howard Ave.
Croswell, Mich. 48422
(313) 679-2120
Jeffrey P. Schock, Manager
customers: 1,062
nameplate capacity (kW): unavailable
1990 MWh generated: 30
1990 MWh purchased: 30,695
1990 MWh sold: 30,725
1990 revenues: $2,350,000
established 1897

Crystal Falls, City of
401 Superior Ave.
Crystal Falls, Mich. 49920
(906) 875-6647
Walter E. Hagglund, City Manager
customers: 1,527
nameplate capacity (kW): hydro: 1,000
1990 MWh generated: 4,280
1990 MWh purchased: 12,013
1990 MWh sold: 15,275
1990 revenues: $945,000
established 1891

Daggett Electric Department
Daggett, Mich. 49821
(906) 753-4085
Keith Sorenson, Village President
customers: 151
1990 MWh generated: 0
1990 MWh purchased: 1,499
1990 MWh sold: 1,499
1990 revenues: $82,000

---

* Member, American Public Power Association
† Member, Demonstration of Energy-Efficient Developments Program

established 1912

Detroit Public Lighting Department*
9449 Grinnell Ave.
Detroit, Mich. 48213
(313) 267-7258
George Cascos, Deputy Superintendent
customers: 1,475
nameplate capacity (kW): oil: 179,000
1990 MWh generated: 291,115
1990 MWh purchased: 466,294
1990 MWh sold: 697,923
1990 revenues: $75,091,000
established 1893

Dowagiac, City of*
203 Chestnut St.
Dowagiac, Mich. 49047
(616) 782-8200
Melvin L. Lyons, Director
customers: 3,008
nameplate capacity (kW): gas: 1,100; oil: 2,800
1990 MWh generated: 2,704
1990 MWh purchased: 52,713
1990 MWh sold: 52,835
1990 revenues: $3,242,000
established 1930

Eaton Rapids, City of
200 S. Main St.
Eaton Rapids, Mich. 48827
(517) 663-8118
Marietta White, City Clerk/Treasurer
customers: 2,118
1990 MWh generated: 0
1990 MWh purchased: 32,983
1990 MWh sold: 30,467
1990 revenues: $2,168,000
established 1898

Escanaba, City of*
120 N. Eighth St.
Escanaba, Mich. 49829
(906) 786-0061
Edwin A. Korpi, Superintendent
customers: 7,446
1990 MWh generated: 0
1990 MWh purchased: 113,242
1990 MWh sold: retail: 106,239
wholesale: 1,531
1990 revenues: retail: $7,291,000
wholesale: $49,000
established 1894

Gladstone, City of
1100 Delta Ave., Box 32
Gladstone, Mich. 49837
(906) 428-3737
Howard Keeton, City Manager
customers: 2,786
1990 MWh generated: 0
1990 MWh purchased: 25,000
1990 MWh sold: 23,000
1990 revenues: $1,813,000
established 1928

Grand Haven, City of*
1700 Eaton Drive
Grand Haven, Mich. 49417
(616) 846-6250
Phil Trumpfheller, General Manager
customers: 10,840
nameplate capacity (kW): coal: 80,000; oil: 22,930
1990 MWh generated: 390,612
1990 MWh purchased: 13,732
1990 MWh sold: retail: 214,440
wholesale: 180,592
1990 revenues: retail: $15,588,000
wholesale: $4,528,000
established 1896

Harbor Springs, City of*
349 E. Main St.
Harbor Springs, Mich. 49740
(616) 526-2122
Fredrick Geuder, City Manager
customers: 2,690
1990 MWh generated: 0
1990 MWh purchased: 25,143
1990 MWh sold: 21,798
1990 revenues: $1,766,000
established 1898

Hart Hydro, City of
407 State St.
Hart, Mich. 49420
(616) 873-2488
Charles Eisenlohr, Hydro Superintendent
customers: 1,223
nameplate capacity (kW): hydro: 320; gas: 1,700; oil: 3,096
1990 MWh generated: 1,127
1990 MWh purchased: 21,630
1990 MWh sold: 19,724
1990 revenues: $1,173,000
established 1927

Hillsdale Board of Public Utilities*
45 Monroe St.
Hillsdale, Mich. 49242
(517) 437-3387
Ronald D. Neer, Director
customers: 5,336
nameplate capacity (kW): gas: 19,288; oil: 2,740
1990 MWh generated: 4,065
1990 MWh purchased: 128,230
1990 MWh sold: 123,613
1990 revenues: $8,997,000
established 1893

Holland Board of Public Works†*
625 Hastings Ave.
Holland, Mich. 49423
(616) 394-1320
Timothy C. Morawski, General Manager
customers: 19,469
nameplate capacity (kW): coal: 62,250; oil: 24,000
1990 MWh generated: 340,101
1990 MWh purchased: 277,960
1990 MWh sold: 592,497
1990 revenues: $30,017,000
established 1893

L'Anse, Village of
~~101 N. Main St.~~
L'Anse, Mich. 49946
(906) 524-7393
Bruce Carlson, Superintendent
customers: 1,161
1990 MWh generated: 0
1990 MWh purchased: 13,164
1990 MWh sold: 11,955
1990 revenues: $807,000
established 1908

Lansing Board of Water & Light†*
123 W. Ottawa St.
Lansing, Mich. 48901
(517) 371-6000
Joseph Pandy Jr., Director and General Manager
customers: 86,752
nameplate capacity (kW): coal: 610,500; hydro: 1,200
1990 MWh generated: 2,485,859
1990 MWh purchased: 6,320
1990 MWh sold: retail: 2,186,177
wholesale: 230,244
1990 revenues: retail: $106,641,000
wholesale: $7,365,000
established 1892

Lowell Light & Power*
127 N. Broadway St.
Lowell, Mich. 49331
(616) 897-8402
Herbert Haines, Superintendent
customers: 2,313
nameplate capacity (kW): gas: 3,600; oil: 2,400
1990 MWh generated: 182
1990 MWh purchased: 45,792
1990 MWh sold: 41,053
1990 revenues: $2,049,000
established 1895

Marquette Board of Light & Power*
2200 W. Wright St.
Marquette, Mich. 49855
(906) 228-0320
David E. Hickey, Director
customers: 14,330
nameplate capacity (kW): coal: 77,200; hydro: 4,500; oil: 25,000
1990 MWh generated: 214,852
1990 MWh purchased: 31,436
1990 MWh sold: retail: 219,431
wholesale: 11,820
1990 revenues: retail: $14,979,000
wholesale: $2,827,000
established 1889

Marshall, City of
323 W. Michigan
Marshall, Mich. 49068
(616) 781-3967
Terry Smith, Administrator
customers: 3,930
nameplate capacity (kW): hydro: 319; oil: 11,600
1990 MWh generated: 2,246
1990 MWh purchased: 82,614
1990 MWh sold: retail: 78,040
wholesale: 2,246
1990 revenues: retail: $6,759,000
wholesale: $53,000
established 1892

Michigan Public Power Agency*
2130 Enterprise, S.E.
Kentwood, Mich. 49508
(616) 455-1460
Gary L. Zimmerman, General Manager
customers: wholesale only
nameplate capacity (kW): coal: 301,420
1990 MWh generated: 1,937,085
1990 MWh purchased: 33,802
1990 MWh sold: wholesale: 1,961,709
1990 revenues: wholesale: $86,430,000
established 1978
(see expanded joint action agency section, page 140)

Michigan South Central Power Agency*
720 Herring Rd., Box 62
Litchfield, Mich. 49252
(517) 542-2346
Jack Bierl, General Manager
customers: wholesale only
nameplate capacity (kW): coal: 55,000
1990 MWh generated: 229,703
1990 MWh purchased: 188,484
1990 MWh sold: wholesale: 401,450
1990 revenues: wholesale: $22,751,000
established 1978
(see expanded joint action agency section, page 140)

Negaunee Electric Department
600 Cherry St.
Negaunee, Mich. 49866
(906) 475-9993
Robert Johnson, Superintendent
customers: 2,187
1990 MWh generated: 0
1990 MWh purchased: 21,154
1990 MWh sold: 19,634
1990 revenues: $1,396,000

Newberry Water and Light Board
307 E. McMillan Ave.
Newberry, Mich. 49868
(906) 293-8531
Robert D. Williams, Superintendent
customers: 1,380
nameplate capacity (kW): oil: 5,600
1990 MWh generated: 109
1990 MWh purchased: 18,862
1990 MWh sold: 16,916
1990 revenues: retail: $1,041,000
wholesale: $5,000
established 1925

Niles Utilities Department†*
322 E. Main St., Box 217
Niles, Mich. 49120
(616) 683-4700
B.B. Day, Interim Manager
customers: 6,768
nameplate capacity (kW): hydro: 460
1990 MWh generated: 2,986
1990 MWh purchased: 121,032
1990 MWh sold: 114,392
1990 revenues: $6,673,000
established 1894

Norway, City of
915 Brown St.
Norway, Mich. 49870
(906) 563-8015
James R. Webb, City Manager
customers: 1,969
nameplate capacity (kW): hydro: 4,700
1990 MWh generated: 22,127
1990 MWh purchased: 7,516
1990 MWh sold: retail: 23,689
wholesale: 2,064
1990 revenues: retail: $1,227,000
wholesale: $51,000
established 1904

Paw Paw, Village of†*
110 Harry L. Bush Blvd., Box 179
Paw Paw, Mich. 49079
(616) 657-3169
Superintendent
customers: 1,719
1990 MWh generated: 0
1990 MWh purchased: 34,080
1990 MWh sold: 32,280
1990 revenues: $1,940,000
established 1898

Petoskey, City of*
100 W. Lake St.
Petoskey, Mich. 49770
(616) 347-2500
George Korthauer, City Manager
customers: 4,286
1990 MWh generated: 0
1990 MWh purchased: 76,407
1990 MWh sold: 72,673
1990 revenues: $4,794,000
established 1898

Portland, City of*
259 Kent St.
Portland, Mich. 48875
(517) 647-6912
Jon M. Hyland, Superintendent
customers: 2,028
nameplate capacity (kW): hydro: 375; oil: 1,163
1990 MWh generated: 686
1990 MWh purchased: 25,500
1990 MWh sold: 23,871
1990 revenues: $1,714,000
established 1896

St. Louis, City of
412 N. Hill St.
St. Louis, Mich. 48880
(517) 681-3351
Ron Gibson, Superintendent
customers: 1,729
nameplate capacity (kW): hydro: 400; oil: 3,510
1990 MWh generated: 0
1990 MWh purchased: 21,593
1990 MWh sold: 17,482
1990 revenues: $1,520,000
established 1899

MICHIGAN *(continued)*

Sebewaing, City of*
110 W. Main St.
Sebewaing, Mich. 48759
(517) 883-2700
Arthur G. Reinhold, Superintendent
customers: 1,236
nameplate capacity (kW): gas: 7,574; oil: 3,172
1990 MWh generated: 21
1990 MWh purchased: 32,544
1990 MWh sold: 30,276
1990 revenues: $2,147,000
established 1911

South Haven, City of
539 Phoenix St.
South Haven, Mich. 49090
(616) 637-0750
Alan G. Vanderberg, City Manager
customers: 6,317
1990 MWh generated: 0
1990 MWh purchased: 111,700
1990 MWh sold: 96,950
1990 revenues: $6,019,000
established 1902

Stephenson, City of
Stephenson, Mich. 49887
(906) 753-4769
James R. Beaudoin, Superintendent
customers: 501
1990 MWh generated: 0
1990 MWh purchased: 6,086
1990 MWh sold: 5,354
1990 revenues: $354,000
established 1920

Sturgis, City of*
130 N. Nottawa, Box 280
Sturgis, Mich. 49091
(616) 651-2321
John E. Brand, City Manager
customers: 6,410
nameplate capacity (kW): hydro: 2,380; gas: 6,000; oil: 4,000
1990 MWh generated: 19,875
1990 MWh purchased: 167,656
1990 MWh sold: 174,946
1990 revenues: $12,139,000
established 1910

Traverse City Light & Power Department†*
400 Boardman Ave., Box 592
Traverse City, Mich. 49685-0592
(616) 922-4470
Charles R. Fricke, Executive Director
customers: 7,783
nameplate capacity (kW): coal: 24,000; hydro: 2,950; gas: 7,500
1990 MWh generated: 86,301
1990 MWh purchased: 124,853
1990 MWh sold: 204,663
1990 revenues: retail: $13,502,000
wholesale: $44,000
established 1912

Union City Electric Department
208 Broadway
Union City, Mich. 49094
(517) 741-8591
James E. Spencer, Superintendent
customers: 1,349
nameplate capacity (kW): hydro: 417; oil: 900
1990 MWh generated: 2,178
1990 MWh purchased: 11,578
1990 MWh sold: 12,768
1990 revenues: $1,179,000

Wakefield, City of
311 Sunday Lake St.
Wakefield, Mich. 49968
(906) 229-5131
Lawrence R. Anderson, Superintendent
customers: 1,091
1990 MWh generated: 0
1990 MWh purchased: 12,999
1990 MWh sold: 12,732
1990 revenues: $558,000
established 1920

Wyandotte Municipal Service Commission*
3005 Biddle Ave., Box 658
Wyandotte, Mich. 48192
(313) 282-7100
Ted S. Olszewski, Chief Operating Officer
customers: 14,264
nameplate capacity (kW): coal: 73,000
1990 MWh generated: 362,854
1990 MWh purchased: 11,976
1990 MWh sold: 236,739
1990 revenues: $17,338,000
established 1894

Zeeland Board of Public Works†*
350 E. Washington Ave.
Zeeland, Mich. 49464
(616) 772-6212
David R. Walters, General Manager
customers: 2,983
nameplate capacity (kW): gas: 22,300; oil: 1,000
1990 MWh generated: 25,900
1990 MWh purchased: 95,900
1990 MWh sold: 117,208
1990 revenues: $6,063,000
established 1902

Minnesota

Ada Water & Light Department
Drawer 32
Ada, Minn. 56510
(218) 784-4467
Lowell Thompson, Line Foreman
customers: 1,085
1990 MWh generated: 0
1990 MWh purchased: 19,032
1990 MWh sold: 18,147
1990 revenues: $650,000
established 1907

Adrian Public Utilities Commission†*
Box 187
Adrian, Minn. 56110
(507) 483-2680
Terry Miller, Superintendent
customers: 600
nameplate capacity (kW): oil: 1,105
1990 MWh generated: 1
1990 MWh purchased: 11,586
1990 MWh sold: 10,478
1990 revenues: $490,000
established 1929

Aitkin Public Utilities Commission*
120 First St. N.W.
Aitkin, Minn. 56431
(218) 927-3222
Wilfrid Fossum, Manager
customers: 1,530
nameplate capacity (kW): oil: 2,400
1990 MWh generated: -200
1990 MWh purchased: 26,000
1990 MWh sold: 22,000
1990 revenues: $1,451,000
established 1892

Alexandria Board of Public Works†*
316 Fillmore St.
Alexandria, Minn. 56308
(612) 763-6501
Dave Nelson, General Manager
customers: 7,008
nameplate capacity (kW): oil: 9,000
1990 MWh generated: -227
1990 MWh purchased: 165,087
1990 MWh sold: 153,087
1990 revenues: $6,696,000
established 1889

Alpha, City of
Box 97
Alpha, Minn. 56111
(507) 847-3557
Linda York, Clerk
customers: 93
1990 MWh generated: 0
1990 MWh purchased: 1,084
1990 MWh sold: 997
1990 revenues: $74,000
established 1915

Alvarado, City of
Box 935
Alvarado, Minn. 56710-0935
(218) 965-4911
Jerome Erickson, Mayor
customers: 178
1990 MWh generated: 0
1990 MWh purchased: 3,205
1990 MWh sold: 2,774
1990 revenues: $184,000

Anoka, City of*
2015 First Ave. N.
Anoka, Minn. 55303
(612) 421-6630
Mark Nagel, City Manager
customers: 9,934
1990 MWh generated: 0
1990 MWh purchased: 185,880
1990 MWh sold: 177,161
1990 revenues: $9,273,000
established 1901

Arlington, City of
312 Alden St.
Arlington, Minn. 55307
(612) 964-2378
Arlen Bruhjell, City Clerk-Utility Supervisor
customers: 940
1990 MWh generated: 0
1990 MWh purchased: 14,749
1990 MWh sold: 13,465
1990 revenues: $866,000

Austin, City of†*
Box 368
Austin, Minn. 55912
(507) 433-8886
Michael Enfield, General Manager
customers: 11,143
nameplate capacity (kW): coal: 31,900
1990 MWh generated: 35,201
1990 MWh purchased: 231,966
1990 MWh sold: retail: 218,357
wholesale: 35,201
1990 revenues: retail: $14,949,000
wholesale: $[illegible],227,000
established 1900

Bagley Public Utilities Commission
18 Main Ave. S., Box M
Bagley, Minn. 56621
(218) 694-2300
Michael Monsrud, Superintendent
customers: 640
1990 MWh generated: 0
1990 MWh purchased: 18,218
1990 MWh sold: 16,401
1990 revenues: $787,000
established 1907

Barnesville Electric Department†*
Box 550
Barnesville, Minn. 56514
(218) 354-2292
H. Gilbertson, Superintendent
customers: 785
1990 MWh generated: 0
1990 MWh purchased: 16,784
1990 MWh sold: 15,072
1990 revenues: $746,000
established 1898

Baudette, City of
106 W. Main St.
Baudette, Minn. 56623
(218) 634-2432
George Taylor Jr., City Superintendent
customers: 625
nameplate capacity (kW): oil: 1,936
1990 MWh generated: 5
1990 MWh purchased: 14,264
1990 MWh sold: 13,520
1990 revenues: $808,000

Benson, City of†*
1410 Kansas Ave.
Benson, Minn. 56215
(612) 843-3707
Robert Klingle, City Manager
customers: 1,730
nameplate capacity (kW): oil: 3,100
1990 MWh generated: 10
1990 MWh purchased: 26,440
1990 MWh sold: 24,609
1990 revenues: $1,132,000
established 1902

Bigelow, City of
1710 Broadway, Box 67
Bigelow, Minn. 56117
(507) 683-2682
Paul Marco, Superintendent
customers: 151
1990 MWh generated: 0
1990 MWh purchased: 1,782
1990 MWh sold: 1,782
1990 revenues: $111,000

Biwabik Public Utilities
Box A
Biwabik, Minn. 55708
(218) 865-4183
Richard E. Harju, Public Utility Superintendent
customers: 560
1990 MWh generated: 0
1990 MWh purchased: 6,197
1990 MWh sold: 5,936
1990 revenues: $303,000
established 1904

Blooming Prairie, City of†*
Box 55
Blooming Prairie, Minn. 55917
(507) 583-6683
Richard D. Kittleson, General Manager
customers: 939
nameplate capacity (kW): oil: 3,600
1990 MWh generated: 0
1990 MWh purchased: 15,703
1990 MWh sold: 14,539
1990 revenues: $1,111,000
established 1931

Blue Earth Light & Water Department†*
118 E. Sixth St.
Blue Earth, Minn. 56013
(507) 526-2191
Jeffrey Jansen, General Manager
customers: 2,039
nameplate capacity (kW): oil: 5,000
1990 MWh generated: 0
1990 MWh purchased: 40,814
1990 MWh sold: 37,845
1990 revenues: $2,542,000
established 1893

Brainerd, City of†*
101 Laurel St., Box 373
Brainerd, Minn. 56401
(218) 829-2193

---

* Member, American Public Power Association
† Member, Demonstration of Energy-Efficient Developments Program

Walter C. Sjolund, Superintendent
customers: 6,584
1990 MWh generated: 0
1990 MWh purchased: 135,055
1990 MWh sold: 123,673
1990 revenues: $6,450,000
established 1892

Breckenridge, City of†*
420 Nebraska Ave., Box 410
Breckenridge, Minn. 56520
(218) 643-4681
Jeff Muehler, Utility Manager
customers: 1,833
1990 MWh generated: 0
1990 MWh purchased: 35,124
1990 MWh sold: 32,141
1990 revenues: $1,269,000
established 1907

Brewster, City of
906 Third Ave.
Brewster, Minn. 56119
(507) 842-5936
Kenneth Kluver, Superintendent
customers: 259
1990 MWh generated: 0
1990 MWh purchased: 3,330
1990 MWh sold: 3,090
1990 revenues: $220,000
established 1914

Brownton, City of
528 Second St. N.
Brownton, Minn. 55312
(612) 328-5318
Carol Winterfeldt, City Clerk
customers: 340
1990 MWh generated: 0
1990 MWh purchased: 4,612
1990 MWh sold: 3,985
1990 revenues: $239,000
established 1921

Buffalo Municipal Utility†*
212 Central Ave.
Buffalo, Minn. 55313
(612) 682-1181
Gerald Moe, Utilities Director
customers: 2,828
1990 MWh generated: 0
1990 MWh purchased: 49,900
1990 MWh sold: 46,300
1990 revenues: $3,126,000
established 1921

Buhl, City of
105 Jones Ave.
Buhl, Minn. 55713
(218) 258-3217
Mike Miklovich, Superintendent
customers: 425
nameplate capacity (kW): oil: 675
1990 MWh generated: 0
1990 MWh purchased: 4,617
1990 MWh sold: 4,100
1990 revenues: $219,000

Caledonia, City of
231 E. Main St., Box 232
Caledonia, Minn. 55921
(507) 724-3450
Robert L. Nelson, City Clerk
customers: 1,371
1990 MWh generated: 0
1990 MWh purchased: 17,194
1990 MWh sold: 16,210
1990 revenues: $990,000
established 1903

Ceylon, City of
Office of the Clerk
Ceylon, Minn. 56121
(507) 632-4653
William F. Ditz, Clerk/Treasurer
customers: 273
1990 MWh generated: 0
1990 MWh purchased: 2,863
1990 MWh sold: 2,570
1990 revenues: $134,000

Chaska, City of, Utility Department*
660 Victoria Dr.
Chaska, Minn. 55318
(612) 448-2851
Steve Wilker, Superintendent of Utilities
customers: 4,207
1990 MWh generated: 0
1990 MWh purchased: 117,426
1990 MWh sold: 113,756
1990 revenues: $6,846,000
established 1905

Darwin, City of
Box 67
Darwin, Minn. 55324
(612) 693-7632
Lauri J. Cervin, Clerk/Treasurer
customers: 140
1990 MWh generated: 0
1990 MWh purchased: 1,950
1990 MWh sold: 1,860
1990 revenues: $87,000
established 1900

Delano Municipal Utilities†*
11 W. Bridge Ave.
Delano, Minn. 55328
(612) 972-3211
Harold J. Becker, Utility Superintendent
customers: 1,391
nameplate capacity (kW): gas: 2,460; oil: 3,526
1990 MWh generated: 19
1990 MWh purchased: 22,240
1990 MWh sold: 20,440
1990 revenues: $1,251,000
established 1932

Detroit Lakes, City of†*
Box 647
Detroit Lakes, Minn. 56501
(218) 847-7609
Greg Sherman, Superintendent
customers: 5,472
nameplate capacity (kW): oil: 12,500
1990 MWh generated: 0
1990 MWh purchased: 116,508
1990 MWh sold: 106,621
1990 revenues: $4,929,000
established 1902

Dundee, City of
Box 65
Dundee, Minn. 56126
(507) 468-2731
Mary E. Norton, City Clerk
customers: unavailable
1990 MWh generated: unavailable
1990 MWh purchased: unavailable
1990 MWh sold: unavailable
1990 revenues: unavailable
established 1921

Dunnell, Village of
Box 94
Dunnell, Minn. 56127
(507) 695-2942
Karen Jerousek, City Clerk
customers: 123
1990 MWh generated: 0
1990 MWh purchased: 1,086
1990 MWh sold: 951
1990 revenues: $60,000
established 1920

East Grand Forks Water, Light, Power & Building Commission
303 Fourth St. N.W., Box 322
East Grand Forks, Minn. 56721
(218) 773-1163
Jerry J. Keller, Secretary
customers: 3,262
1990 MWh generated: 0
1990 MWh purchased: 106,610
1990 MWh sold: 100,995
1990 revenues: $4,182,000
established 1909

Eitzen, City of
Box 110
Eitzen, Minn. 55931
(507) 495-3259
Marjorie Stokman, Clerk-Treasurer
customers: 135
1990 MWh generated: 0
1990 MWh purchased: 1,937
1990 MWh sold: 1,744
1990 revenues: $119,000
established 1946

Elbow Lake, City of†*
Box 1079
Elbow Lake, Minn. 56531
(218) 685-4483
Ruddy Schei, Superintendent
customers: 728
1990 MWh generated: 0
1990 MWh purchased: 13,686
1990 MWh sold: 12,997
1990 revenues: $747,000
established 1965

Elk River Municipal Utilities†*
322 King Ave.
Elk River, Minn. 55330
(612) 441-2020
William Birrenkott, General Manager
customers: 4,014
nameplate capacity (kW): gas: 8,000; oil: 1,100
1990 MWh generated: 63
1990 MWh purchased: 66,659
1990 MWh sold: 62,699
1990 revenues: $4,305,000
established 1945

Ely, City of
209 E. Chapman St.
Ely, Minn. 55731
(218) 365-3225
Joseph Jamnick, Superintendent
customers: 1,936
1990 MWh generated: 0
1990 MWh purchased: 27,147
1990 MWh sold: 25,635
1990 revenues: $1,657,000
established 1890

Fairfax, City of*
112 S.E. First St.
Fairfax, Minn. 55332
(507) 426-7255
Larry Linsmeier, Superintendent
customers: 663
nameplate capacity (kW): oil: 1,700
1990 MWh generated: -132
1990 MWh purchased: 11,254
1990 MWh sold: 9,415
1990 revenues: $436,000
established 1910

Fairmont Public Utilities Commission*
100 Downtown Plaza
Fairmont, Minn. 56031
(507) 238-9461
Public Works Director
customers: 5,840
nameplate capacity (kW): coal: 22,500; oil: 13,000
1990 MWh generated: 4,896
1990 MWh purchased: 146,235
1990 MWh sold: 145,410
1990 revenues: $11,017,000
established 1902

Fosston, City of
220 E. First St.
Fosston, Minn. 56542
(218) 435-1737
Russell W. Earls, Superintendent
customers: 867
1990 MWh generated: 0
1990 MWh purchased: 27,751
1990 MWh sold: 25,089
1990 revenues: $1,362,000
established 1941

Gilbert Water & Light
Box 388
Gilbert, Minn. 55741
(218) 741-9617
Ken Hegman, Electric Superintendent
customers: 937
1990 MWh generated: 0
1990 MWh purchased: 9,031
1990 MWh sold: 8,531
1990 revenues: $556,000
established 1908

Glencoe Light & Power Commission†*
305 11th St. E.
Glencoe, Minn. 55336
(612) 864-5184
Joseph I. Adrian, Manager
customers: 2,353
nameplate capacity (kW): gas: 19,570; oil: 7,060
1990 MWh generated: 1,635
1990 MWh purchased: 58,234
1990 MWh sold: 55,753
1990 revenues: $3,120,000
established 1938

Grand Marais, City of†*
15 N. Broadway
Grand Marais, Minn. 55604
(218) 387-1848
Thomas N. Swenson, Manager
customers: 998
nameplate capacity (kW): oil: 4,034
1990 MWh generated: 21
1990 MWh purchased: 14,443
1990 MWh sold: 12,714
1990 revenues: $990,000
established 1949

Grand Rapids Public Utilities Commission*
420 N. Pokegama Ave., Box 658
Grand Rapids, Minn. 55744
(218) 327-2805
Anthony T. Ward, General Manager
customers: 5,121
1990 MWh generated: 0
1990 MWh purchased: 116,296
1990 MWh sold: 102,221
1990 revenues: $5,604,000
established 1910

Granite Falls, Town of†*
885 Prentice St.
Granite Falls, Minn. 56241
(612) 564-3011
William P. Lavin, City Manager
customers: 1,599
nameplate capacity (kW): hydro: 1,275
1990 MWh generated: 1,880
1990 MWh purchased: 26,434
1990 MWh sold: 23,823
1990 revenues: $1,095,000
established 1891

Grove City Public Utilities
Box 98
Grove City, Minn. 56243
(612) 857-2322
David Martin, Superintendent
customers: 373
1990 MWh generated: 0
1990 MWh purchased: 5,737
1990 MWh sold: 4,859
1990 revenues: $394,000

Halstad Municipal Utilities
RR 2, Box 1
Halstad, Minn. 56548
(218) 456-2128
Daniel R. Duklet, Superintendent
customers: 335
nameplate capacity (kW): oil: 1,100

MINNESOTA *(continued)*

1990 MWh generated: 2
1990 MWh purchased: 8,382
1990 MWh sold: 8,090
1990 revenues: $456,000
established 1939

Harmony, City of
15 2nd St. NW, Box 488
Harmony, Minn. 55939
(507) 886-8122
Norman Johnson, Superintendent
customers: 532
1990 MWh generated: 0
1990 MWh purchased: 7,111
1990 MWh sold: 6,078
1990 revenues: $422,000

Hawley Public Utilities Commission
319 Sixth St.
Hawley, Minn. 56549
(218) 483-3331
James Brekke, Clerk/Treasurer
customers: 794
nameplate capacity (kW): oil: 1,461
1990 MWh generated: 0
1990 MWh purchased: 14,003
1990 MWh sold: 13,375
1990 revenues: $678,000
established 1909

Henning, City of†*
Box 55
Henning, Minn. 56551
(218) 583-2402
Donald Hagen, Superintendent
customers: 445
1990 MWh generated: 0
1990 MWh purchased: 7,644
1990 MWh sold: 6,960
1990 revenues: $341,000
established 1956

Hibbing Public Utilities Commission*
Sixth Ave. E. & 19th St.
Hibbing, Minn. 55746
(218) 263-7515
Thomas F. Bovitz, General Manager
customers: 7,126
nameplate capacity (kW): coal: 31,000
1990 MWh generated: 37,351
1990 MWh purchased: 78,595
1990 MWh sold: 103,479
1990 revenues: $7,098,000
established 1895

Hutchinson Utilities Commission*
225 Michigan St.
Hutchinson, Minn. 55350
(612) 587-4746
Clarence Kadrmas, General Manager
customers: 5,370
nameplate capacity (kW): gas: 30,500; oil: 29,000
1990 MWh generated: 27,670
1990 MWh purchased: 206,183
1990 MWh sold: retail: 227,783
wholesale: 156
1990 revenues: retail: $9,338,000
wholesale: $3,000
established 1936

Jackson, City of†*
80 W. Ashley St.
Jackson, Minn. 56143
(507) 874-4410
Dean Albrecht, City Administrator
customers: 1,815
1990 MWh generated: 0
1990 MWh purchased: 33,488
1990 MWh sold: 32,578
1990 revenues: $1,589,000
established 1936

Janesville, City of*
219 N. Main St.
Janesville, Minn. 56048
(507) 234-5112
John Schmidt, Superintendent
customers: 972
nameplate capacity (kW): gas: 3,100
1990 MWh generated: 251
1990 MWh purchased: 8,628
1990 MWh sold: 8,454
1990 revenues: $493,000
established 1939

Kandiyohi, City of
Box 276
Kandiyohi, Minn. 56251
(612) 382-6110
M. W. Seiler, Clerk
customers: 235
1990 MWh generated: 0
1990 MWh purchased: 4,021
1990 MWh sold: 3,540
1990 revenues: $145,000

Kasota, City of
201 Webster St.
Kasota, Minn. 56050
(507) 931-3290
Rose Sickler, Clerk
customers: 315
1990 MWh generated: 0
1990 MWh purchased: 2,678
1990 MWh sold: 2,678
1990 revenues: $157,000

Kasson, City of
122 W. Main St.
Kasson, Minn. 55944
(507) 634-7302
Keith Houston, Superintendent
customers: 1,515
1990 MWh generated: 0
1990 MWh purchased: 16,680
1990 MWh sold: 14,876
1990 revenues: $896,000
established 1937

Keewatin Public Utilities Commission
City Hall, Box 190
Keewatin, Minn. 55753
(218) 778-6544
Richard Nyhus, Supervisor
customers: 573
1990 MWh generated: 0
1990 MWh purchased: 5,482
1990 MWh sold: 5,307
1990 revenues: $340,000
established 1927

Kenyon Municipal Utilities
713 Second St.
Kenyon, Minn. 55946
(507) 789-6573
Lorry Wille, Superintendent
customers: 799
nameplate capacity (kW): oil: 1,900
1990 MWh generated: 0
1990 MWh purchased: 12,918
1990 MWh sold: 11,940
1990 revenues: $715,000
established 1932

Lake City, City of*
205 W. Center St.
Lake City, Minn. 55041
(612) 345-5383
John E. Brandt, P.E., Utilities Manager
customers: 2,470
1990 MWh generated: 0
1990 MWh purchased: 77,630
1990 MWh sold: 74,198
1990 revenues: $4,506,000
established 1907

Lake Crystal Municipal Power Plant
100 E. Robinson St.
Lake Crystal, Minn. 56055
(507) 726-2260
Doug Williams, Utilities Superintendent
customers: 879
nameplate capacity (kW): gas: 3,975
1990 MWh generated: 54
1990 MWh purchased: 12,274
1990 MWh sold: 11,089
1990 revenues: $708,000
established 1937

Lake Park Public Utilities†*
Second St.
Lake Park, Minn. 56554
(218) 238-5337
George Mattson, Superintendent
customers: 360
1990 MWh generated: 0
1990 MWh purchased: 6,418
1990 MWh sold: 5,874
1990 revenues: $326,000
established 1927

Lakefield Public Utilities†*
Box 1023
Lakefield, Minn. 56150
(507) 662-6363
Richard Thompson, Superintendent
customers: 903
nameplate capacity (kW): unavailable
1990 MWh generated: 203
1990 MWh purchased: 13,043
1990 MWh sold: 11,185
1990 revenues: $549,000
established 1900

Lanesboro Public Utility Commission
202 Parkway St.
Lanesboro, Minn. 55949
(507) 467-3722
Donald Wanger, Superintendent
customers: 575
nameplate capacity (kW): hydro: 312; oil: 1,695
1990 MWh generated: 70
1990 MWh purchased: 5,514
1990 MWh sold: 5,056
1990 revenues: $299,000
established 1902

Le Sueur, City of
228 N. Main St.
Le Sueur, Minn. 56058
(612) 665-3338
M. D. Hentges, Superintendent
customers: 1,953
nameplate capacity (kW): oil: 3,433
1990 MWh generated: 0
1990 MWh purchased: 70,944
1990 MWh sold: 68,354
1990 revenues: $3,483,000
established 1934

Litchfield Public Utility Commission†*
421 E. Third St., Box 521
Litchfield, Minn. 55355
(612) 693-3277
Dallas E. Nelson, Superintendent
customers: 2,831
nameplate capacity (kW): coal: 3,000; oil: 8,100
1990 MWh generated: 0
1990 MWh purchased: 90,769
1990 MWh sold: retail: 79,327
wholesale: 7,673
1990 revenues: retail: $2,759,000
wholesale: $274,000
established 1890

Luverne, City of†*
203 E. Main, Box 348
Luverne, Minn. 56156-0348
(507) 283-2388
Steven L. Perkins, City Administrator
customers: 2,188
nameplate capacity (kW): gas: 3,000; oil: 4,400
1990 MWh generated: 0
1990 MWh purchased: 54,140
1990 MWh sold: 51,088
1990 revenues: $2,195,000
established 1892

Mabel, City of
Box 425
Mabel, Minn. 55954
(507) 493-5299
Jimmy Narum, Clerk
customers: 470
1990 MWh generated: 0
1990 MWh purchased: 4,384
1990 MWh sold: 4,035
1990 revenues: $254,000
established 1905

Madelia Municipal Light & Power*
24 Abbott Ave.
Madelia, Minn. 56062
(507) 642-8803
Steve Moses, Manager
customers: 1,200
nameplate capacity (kW): gas: 8,846
1990 MWh generated: 192
1990 MWh purchased: 28,075
1990 MWh sold: 26,850
1990 revenues: $1,503,000
established 1939

Madison, City of†*
109 Seventh Ave.
Madison, Minn. 56256
(612) 598-3239
Harold L. Hodge, Superintendent
customers: 1,046
nameplate capacity (kW): oil: 1,040
1990 MWh generated: 0
1990 MWh purchased: 18,122
1990 MWh sold: 16,420
1990 revenues: $852,000
established 1898

Marshall Municipal Utilities†*
113 S. Fourth St.
Marshall, Minn. 56258
(507) 537-7005
General Manager
customers: 5,899
nameplate capacity (kW): oil: 20,400
1990 MWh generated: 41
1990 MWh purchased: 236,925
1990 MWh sold: 230,432
1990 revenues: $8,023,000
established 1894

Melrose, City of†*
225 E. First St. N.
Melrose, Minn. 56352
(612) 256-4666
Donald E. Salzmann, Superintendent of Public Works
customers: 1,250
nameplate capacity (kW): oil: 8,100
1990 MWh generated: 904
1990 MWh purchased: 81,573
1990 MWh sold: 78,338
1990 revenues: $3,370,000
established 1905

Moorhead Public Service Department†*
500 Center Ave., Box 779
Moorhead, Minn. 56561-0779
(218) 299-5400
Tom Heller, General Manager
customers: 12,451
nameplate capacity (kW): coal: 23,530; oil: 10,000
1990 MWh generated: 0
1990 MWh purchased: 316,659
1990 MWh sold: 301,367
1990 revenues: $11,230,000
established 1895

---

* Member, American Public Power Association
† Member, Demonstration of Energy-Efficient Developments Program

MINNESOTA *(continued)*

Moose Lake Water & Light Commission
401 Fourth St.
Moose Lake, Minn. 55767
(218) 486-4100
William Wesley, Superintendent
customers: 828
nameplate capacity (kW): gas: 3,600
1990 MWh generated: 17
1990 MWh purchased: 15,500
1990 MWh sold: 14,935
1990 revenues: $975,000
established 1933

Mora Municipal Utilities*
117 S.E. Railroad Ave.
Mora, Minn. 55051
(612) 679-1511
Steven C. Jones, City Administrator
customers: 1,593
nameplate capacity (kW): gas: 13,911
1990 MWh generated: 600
1990 MWh purchased: 56,000
1990 MWh sold: retail: 53,500
wholesale: 600
1990 revenues: retail: $3,471,000
wholesale: $14,000
established 1934

Mountain Iron, City of*
City Hall, Box 505
Mountain Iron, Minn. 55768
(218) 735-8267
Richard F. Anderson, Superintendent of Public Works
customers: 718
1990 MWh generated: 0
1990 MWh purchased: 12,641
1990 MWh sold: 11,786
1990 revenues: $779,000
established 1919

Mountain Lake, City of†*
1015 Second Ave.
Mountain Lake, Minn. 56159
(507) 427-2999
Harold Quiring, Head, Electric Department
customers: 1,047
nameplate capacity (kW): oil: 5,442
1990 MWh generated: 0
1990 MWh purchased: 15,200
1990 MWh sold: 15,200
1990 revenues: $860,000
established 1935

Nashwauk Public Utilities*
301 Central Ave.
Nashwauk, Minn. 55769
(218) 885-1210
Edward Bolf, Deputy Clerk
customers: 512
1990 MWh generated: 0
1990 MWh purchased: 5,744
1990 MWh sold: 5,330
1990 revenues: $289,000
established 1910

New Prague Municipal Utilities Commission*
300 E. Main St.
New Prague, Minn. 56071
(612) 758-4447
DeWayne Rubedor, Superintendent
customers: 1,641
nameplate capacity (kW): gas: 18,300
1990 MWh generated: 3,708
1990 MWh purchased: 47,606
1990 MWh sold: 48,488
1990 revenues: $3,655,000
established 1928

New Ulm Public Utilities Commission*
310 First North St.
New Ulm, Minn. 56073
(507) 359-8264
John R. Gilman, Superintendent
customers: 6,431
nameplate capacity (kW): coal: 21,000; oil: 24,000
1990 MWh generated: 88,313
1990 MWh purchased: 75,790
1990 MWh sold: 155,955
1990 revenues: $8,292,000
established 1902

Newfolden, City of
Box 188
Newfolden, Minn. 56738
(218) 874-3186
Marlin Lee, Superintendent
customers: 210
1990 MWh generated: 0
1990 MWh purchased: 3,448
1990 MWh sold: 3,172
1990 revenues: $158,000

Nielsville, City of
Box 68
Nielsville, Minn. 56568
(218) 946-3281
Darlene Ruthenberg, City Clerk
customers: 50
1990 MWh generated: 0
1990 MWh purchased: 789
1990 MWh sold: 789
1990 revenues: $39,000

North Branch, City of*
712 Maple St.
North Branch, Minn. 55056
(612) 674-7100
Bruce Walters, Superintendent
customers: 1,007
nameplate capacity (kW): oil: 2,300
1990 MWh generated: 0
1990 MWh purchased: 14,581
1990 MWh sold: 13,257
1990 revenues: $1,084,000
established 1941

North Saint Paul, City of*
2526 E. Seventh Ave.
North Saint Paul, Minn. 55109
(612) 770-4488
Ronald Schuler, Director of Electric Utilities
customers: 5,694
1990 MWh generated: 0
1990 MWh purchased: 66,428
1990 MWh sold: 62,230
1990 revenues: $4,035,000
established 1887

Northern Municipal Power Agency
Box 528
Thief River Falls, Minn. 56701
(218) 681-8002
John T. Anderson, President/General Manager
customers: wholesale only
nameplate capacity (kW): unavailable
1990 MWh generated: 583,291
1990 MWh purchased: 0
1990 MWh sold: wholesale: 583,291
1990 revenues: wholesale: $28,584,000
established 1976
(see expanded joint action agency section, page 140)

Olivia, City of
1009 W. Lincoln Ave.
Olivia, Minn. 56277
(612) 523-2361
Don Frederick, City Administrator
customers: 1,333
1990 MWh generated: 0
1990 MWh purchased: 27,883
1990 MWh sold: 24,240
1990 revenues: $831,000

Ortonville, City of†*
315 Madison Ave.
Ortonville, Minn. 56278
(612) 839-3428
Art Hamann, Electrical Superintendent
customers: 1,271
1990 MWh generated: 0
1990 MWh purchased: 24,579
1990 MWh sold: 22,428
1990 revenues: $1,027,000
established 1905

Owatonna Public Utilities†*
208 S. Walnut Ave., Box 800
Owatonna, Minn. 55060
(507) 451-2480
David M. Martin, General Manager
customers: 8,564
nameplate capacity (kW): gas: 45,000
1990 MWh generated: 0
1990 MWh purchased: 222,505
1990 MWh sold: 209,084
1990 revenues: $14,210,000
established 1924

Peterson, City of
City Hall, Box 94
Peterson, Minn. 55962
(507) 875-2510
Paul Benson, Clerk/Treasurer
customers: 115
1990 MWh generated: 0
1990 MWh purchased: 1,344
1990 MWh sold: 1,151
1990 revenues: $84,000

Pierz Municipal Electric
Box 457
Pierz, Minn. 56364
(612) 468-6471
Jim Kummet, Electric Superintendent
customers: 530
1990 MWh generated: 0
1990 MWh purchased: 6,311
1990 MWh sold: 5,980
1990 revenues: $428,000

Preston Public Utilities Commission†*
109 St. Paul Two S.W., Box 657
Preston, Minn. 55965
(507) 765-2153
Fred Nagle, Superintendent
customers: 817
nameplate capacity (kW): gas: 2,000; oil: 2,400
1990 MWh generated: -127
1990 MWh purchased:
from utilities: 12,146
from nonutilities: 2
1990 MWh sold: 11,359
1990 revenues: $964,000
established 1896

Princeton Public Utilities Commission†*
First St. and Tenth Ave.
Princeton, Minn. 55371
(612) 389-2252
Harold Steppuhn, Manager
customers: 1,847
nameplate capacity (kW): oil: 7,550
1990 MWh generated: 10
1990 MWh purchased: 34,892
1990 MWh sold: 31,807
1990 revenues: $2,385,000
established 1938

Proctor Public Utilities Commission
200 Second St.
Proctor, Minn. 55810
(218) 624-4055
Daniel Hoffman, General Manager
customers: 1,383
1990 MWh generated: 0
1990 MWh purchased: 15,827
1990 MWh sold: 14,002
1990 revenues: $870,000
established 1941

Randall, City of
City Hall
Randall, Minn. 56475
(612) 749-2159
Larry Sharon, Clerk
customers: 269
1990 MWh generated: 0
1990 MWh purchased: 2,453
1990 MWh sold: 2,453
1990 revenues: $192,000

Redwood Falls Public Utilities Commission†*
333 S. Washington St., Box 48
Redwood Falls, Minn. 56283
(507) 637-5789
Curtis G. Weber, Superintendent
customers: 2,424
nameplate capacity (kW): hydro: 500; oil: 9,315
1990 MWh generated: 2,150
1990 MWh purchased: 54,800
1990 MWh sold: retail: 54,570
wholesale: 1,450
1990 revenues: retail: $2,417,000
wholesale: $112,000
established 1946

Rochester Public Utilities†*
4000 E. River Road N.E.
Rochester, Minn. 55906-2813
(507) 280-1540
Robert R. Pawelski, General Manager
customers: 31,143
nameplate capacity (kW): coal: 99,000; hydro: 2,680; oil: 35,000
1990 MWh generated: 206,420
1990 MWh purchased: 862,488
1990 MWh sold: retail: 845,820
wholesale: 193,203
1990 revenues: retail: $55,525,000
wholesale: $6,415,000
established 1894

Roseau, City of
100 Second Ave., Box 307
Roseau, Minn. 56751
(218) 463-1542
Leland Lunos, City Clerk
customers: 1,188
nameplate capacity (kW): oil: 3,052
1990 MWh generated: 25
1990 MWh purchased: 32,010
1990 MWh sold: 30,893
1990 revenues: $1,390,000
established 1895

Round Lake, City of
98 Main St.
Round Lake, Minn. 56167
(507) 945-8127
Gary Jergensen, Superintendent
customers: 250
1990 MWh generated: 0
1990 MWh purchased: 7,509
1990 MWh sold: 7,010
1990 revenues: $452,000

Rushford, City of
405 S. Elm St., Box 430
Rushford, Minn. 55971
(507) 864-2444
Robert A. Museus, Clerk/Administrator
customers: 767
1990 MWh generated: 0
1990 MWh purchased: 12,843
1990 MWh sold: 10,621
1990 revenues: $646,000
established 1901

---

* Member, American Public Power Association
† Member, Demonstration of Energy-Efficient Developments Program

Rushmore, City of
Box 227
Rushmore, Minn. 56168
(507) 478-4338
Lori Gruis, City Clerk
customers: 216
1990 MWh generated: 0
1990 MWh purchased: 1,857
1990 MWh sold: 1,691
1990 revenues: $123,000
established 1900

St. Charles, City of
1242 Whitewater Ave.
St. Charles, Minn. 55972
(507) 932-3020
Gus Ihrke, Superintendent
customers: 1,218
1990 MWh generated: 0
1990 MWh purchased: 23,300
1990 MWh sold: 22,129
1990 revenues: $1,256,000
established 1868

St. James, City of†*
124 Armstrong Blvd. S., Box 70
St. James, Minn. 56081
(507) 375-3241
Roy Trullinger, City Clerk-Treasurer
customers: 2,128
1990 MWh generated: 0
1990 MWh purchased: 56,539
1990 MWh sold: 46,901
1990 revenues: $1,791,000

St. Peter Municipal Electric Utility*
405 W. Saint Julien St.
St. Peter, Minn. 56082
(507) 931-4840
Lewis G. Giesking, Director of Public Works
customers: 3,233
1990 MWh generated: 0
1990 MWh purchased: 64,715
1990 MWh sold: 61,358
1990 revenues: $5,106,000
established 1891

Sauk Centre Water, Light & Power Commission†*
101 Main St. S., Box 128
Sauk Centre, Minn. 56378
(612) 352-6538
Robert G. Essler, Superintendent
customers: 1,795
1990 MWh generated: 0
1990 MWh purchased: 39,411
1990 MWh sold: 36,743
1990 revenues: $1,508,000
established 1918

Shakopee Public Utilities Commission*
1030 E. Fourth Ave.
Shakopee, Minn. 55379
(612) 445-1988
Lou Van Hout, Utilities Manager
customers: 5,077
1990 MWh generated: 0
1990 MWh purchased: 115,939
1990 MWh sold: 110,598
1990 revenues: $5,819,000
established 1900

Shelly, City of
Box 126
Shelly, Minn. 56581
(218) 886-8895
Chester Mauritson, Mayor
customers: 139
1990 MWh generated: 0
1990 MWh purchased: 2,400
1990 MWh sold: 2,000
1990 revenues: $102,000

Sleepy Eye Public Utility Commission*
130 Second Ave. N.W.
Sleepy Eye, Minn. 56085
(507) 794-4371
David Logue, Superintendent
customers: 1,800
nameplate capacity (kW): coal: 2,000; oil: 2,122
1990 MWh generated: 3,205
1990 MWh purchased: 33,095
1990 MWh sold: 33,859
1990 revenues: $1,716,000
established 1895

Southern Minnesota Municipal Power Agency*
500 S.W. First Ave.
Rochester, Minn. 55902
(507) 285-0478
Pierre J. Heroux, Executive Director & CEO
customers: wholesale only
nameplate capacity (kW): unavailable
1990 MWh generated: 2,068,236
1990 MWh purchased:
from utilities: 382,143
from nonutilities: 6,594
1990 MWh sold: wholesale: 2,381,450
1990 revenues: wholesale: $120,594,000
established 1977
(see expanded joint action agency section, page 140)

Spring Grove, City of
118 First Ave.
Spring Grove, Minn. 55974
(507) 498-5221
Robert Hillman, Clerk Administrator
customers: 696
1990 MWh generated: 0
1990 MWh purchased: 14,744
1990 MWh sold: 11,504
1990 revenues: $716,000

Spring Valley Public Utilities Commission†*
104 S. Section Ave.
Spring Valley, Minn. 55975
(507) 346-7622
Ted Loucks, Superintendent
customers: 1,356
nameplate capacity (kW): oil: 3,940
1990 MWh generated: 367
1990 MWh purchased: 16,298
1990 MWh sold: 15,001
1990 revenues: $1,264,000
established 1935

Springfield Public Utilities Commission
14 N. Marshall Ave.
Springfield, Minn. 56087
(507) 723-5290
Menno Mennenga, Superintendent
customers: 1,189
nameplate capacity (kW): coal: 7,000
1990 MWh generated: 289
1990 MWh purchased: 21,946
1990 MWh sold: 20,252
1990 revenues: $1,255,000
established 1894

Staples, City of†*
611 Iowa Ave. N.
Staples, Minn. 56479
(218) 894-2550
Gerald Brever, City Administrator
customers: 1,475
1990 MWh generated: 0
1990 MWh purchased: 21,846
1990 MWh sold: 19,440
1990 revenues: $1,270,000

Stephen, City of
Box 630
Stephen, Minn. 56757
(218) 478-3803
Leonard Bazey, Superintendent
customers: 420
1990 MWh generated: 0
1990 MWh purchased: 11,074
1990 MWh sold: 10,351
1990 revenues: $540,000
established 1910

Thief River Falls, City of†*
803 S. Barzen Ave., Box 528
Thief River Falls, Minn. 56701
(218) 681-5816
Arlo L. Rude, Director of Utilities
customers: 3,809
nameplate capacity (kW): hydro: 550; oil: 5,900
1990 MWh generated: 157
1990 MWh purchased: 99,597
1990 MWh sold: 97,760
1990 revenues: $4,371,000
established 1901

Truman Public Utilities†*
Box 147
Truman, Minn. 56088
(507) 776-6501
Robert H. Grefe, Superintendent
customers: 666
nameplate capacity (kW): oil: 4,177
1990 MWh generated: 14
1990 MWh purchased: 11,022
1990 MWh sold: 10,047
1990 revenues: $604,000
established 1938

Two Harbors, City of
522 First Ave.
Two Harbors, Minn. 55616
(218) 834-5631
Robert Sellman, Superintendent
customers: 2,631
nameplate capacity (kW): oil: 2,000
1990 MWh generated: -168
1990 MWh purchased: 21,792
1990 MWh sold: 19,471
1990 revenues: $1,279,000
established 1909

Tyler, City of†*
Box C
Tyler, Minn. 56178
(507) 247-5556
Al Jorgensen, Clerk
customers: 669
1990 MWh generated: 0
1990 MWh purchased: 12,131
1990 MWh sold: 10,833
1990 revenues: $505,000

Virginia, City of
620 Second St. S., Box 1048
Virginia, Minn. 55792
(218) 741-0740
Dan Hestetune, General Manager
customers: 5,686
nameplate capacity (kW): coal: 36,000
1990 MWh generated: 59,644
1990 MWh purchased: 32,759
1990 MWh sold: 83,877
1990 revenues: $5,489,000
established 1913

Wadena, City of†*
104 N. Jefferson
Wadena, Minn. 56482
(218) 631-1813
Curt Punt, Superintendent
customers: 2,418
1990 MWh generated: 0
1990 MWh purchased: 54,521
1990 MWh sold: 48,739
1990 revenues: $1,930,000
established 1897

Warren, City of
126 W. Johnson Ave.
Warren, Minn. 56762
(218) 745-5343
Ralph Plencner, Superintendent
customers: 822
nameplate capacity (kW): oil: 2,161
1990 MWh generated: 4
1990 MWh purchased: 18,371
1990 MWh sold: 15,656
1990 revenues: $877,000
established 1902

Warroad, City of
Box 50
Warroad, Minn. 56763
(218) 386-1873
Darrel Anderson, Superintendent
customers: 828
1990 MWh generated: 0
1990 MWh purchased: 38,000
1990 MWh sold: 37,400
1990 revenues: $1,412,000

Waseca, City of*
508 S. State St.
Waseca, Minn. 56093
(507) 835-3890
Duane Brase, Utility Superintendent
customers: 3,893
1990 MWh generated: 0
1990 MWh purchased: 55,811
1990 MWh sold: 52,366
1990 revenues: $3,969,000
established 1894

Wells Public Utilities†*
101 First St. S.E.
Wells, Minn. 56097
(507) 553-3119
Ray Wigern, Superintendent
customers: 1,348
nameplate capacity (kW): oil: 8,300
1990 MWh generated: 23,761
1990 MWh purchased: 0
1990 MWh sold: 21,608
1990 revenues: $1,652,000
established 1894

Westbrook Municipal Light & Power†*
Box 296
Westbrook, Minn. 56183
(507) 274-6712
Dennis Jutting, Superintendent
customers: 487
nameplate capacity (kW): oil: 1,548
1990 MWh generated: 0
1990 MWh purchased: 8,109
1990 MWh sold: 7,771
1990 revenues: $382,000
established 1938

Western Minnesota Municipal Power Agency
212 Second St. N.W.
Ortonville, Minn. 56278
(612) 839-2549
Dan Holdhusen, General Manager
customers: wholesale only
nameplate capacity (kW): unavailable
1990 MWh generated: 1,863,168
1990 MWh purchased: 0
1990 MWh sold: wholesale: 1,863,168
1990 revenues: wholesale: $42,436,000
established 1976
(see expanded joint action agency section, page 140)

Whalan, Town of
Route 1, Box 2
Whalan, Minn. 55986
(507) 467-3323
Darlys Hongerholt, Clerk/Treasurer
customers: 56
1990 MWh generated: 0
1990 MWh purchased: 394
1990 MWh sold: 341
1990 revenues: $26,000

Willmar Municipal Utilities Commission*
700 Litchfield Ave., S.W., Box 937
Willmar, Minn. 56201
(612) 235-4422
C. Ted Nelson, General Manager

customers: 7,901
nameplate capacity (kW): coal: 30,000
1990 MWh generated: 39,136
1990 MWh purchased: 150,824
1990 MWh sold: 178,439
1990 revenues: $9,799,000
established 1895

Windom, City of†*
444 Ninth St.
Windom, Minn. 56101
(507) 831-1539
Dennis Purrington, Superintendent
customers: 2,221
nameplate capacity (kW): oil: 3,000
1990 MWh generated: 6
1990 MWh purchased: 44,904
1990 MWh sold: 43,000
1990 revenues: $1,635,000
established 1895

Winthrop, City of
305 N. Main St., Box Y
Winthrop, Minn. 55396
(507) 647-5306
Dennis D. Kruggel, Superintendent
customers: 769
1990 MWh generated: 0
1990 MWh purchased: 14,854
1990 MWh sold: 13,244
1990 revenues: $801,000
established 1925

Worthington Public Utilities†*
823 Third Ave., Box 458
Worthington, Minn. 56187
(507) 372-8680
Donald E. Habicht, General Manager
customers: 4,920
1990 MWh generated: 0
1990 MWh purchased: 126,791
1990 MWh sold: retail: 114,807
wholesale: 5,128
1990 revenues: retail: $6,167,000
wholesale: $248,000
established 1895

Mississippi

(Systems designated (TVA) are distributors of Tennessee Valley Authority power and purchase all of their power from TVA.)

Aberdeen Electric Department
Box 817
Aberdeen, Miss. 39730
(601) 369-4731
R. T. Byars, General Manager
customers: 3,595
1990 MWh generated: 0
1990 MWh purchased: 157,637 (TVA)
1990 MWh sold: 152,915
1990 revenues: $7,889,000
established 1939

Amory, City of
Box 266
Amory, Miss. 38821
(601) 256-5633
Lee Miller, Manager
customers: 3,882
1990 MWh generated: 0
1990 MWh purchased: 125,000 (TVA)
1990 MWh sold: 115,000
1990 revenues: $6,803,000
established 1934

Canton Municipal Utilities†*
226 E. Peace St., Box 114
Canton, Miss. 39046
(601) 859-2921
John Wallace, General Manager
customers: 4,702
1990 MWh generated: 0
1990 MWh purchased: 99,998
1990 MWh sold: 91,521
1990 revenues: $5,952,000
established 1896

Clarksdale Public Utilities*
Box 940
Clarksdale, Miss. 38614
(601) 627-8403
Marvin Carraway, General Manager
customers: 7,903
nameplate capacity (kW): gas: 61,550
1990 MWh generated: 22,162
1990 MWh purchased: 168,199
1990 MWh sold: retail: 154,630
wholesale: 23,064
1990 revenues: retail: $9,212,000
wholesale: $809,000
established 1900

Collins, City of
Box 400
Collins, Miss. 39428
(601) 765-4491
Jimmy D. Harvey, Supervisor
customers: 1,126
1990 MWh generated: 0
1990 MWh purchased: 26,600
1990 MWh sold: 24,461
1990 revenues: $1,390,000

Columbus Light & Water Department†*
Box 949
Columbus, Miss. 39701
(601) 328-7192
Sam Head, General Manager
customers: 11,630
1990 MWh generated: 0
1990 MWh purchased: 433,348 (TVA)
1990 MWh sold: 413,360
1990 revenues: $22,094,000
established 1939

Durant, City of
106 W. Mulberry St.
Durant, Miss. 39063
(601) 653-3221
R. C. Umphers, Superintendent
customers: 1,144
1990 MWh generated: 0
1990 MWh purchased: 22,590
1990 MWh sold: 21,268
1990 revenues: $1,247,000
established 1930

Greenwood Utilities Commission*
101 Wright Place, Box 866
Greenwood, Miss. 38930
(601) 453-7234
Clyde W. Farrell, Manager
customers: 10,074
nameplate capacity (kW): coal: 40,150; gas: 24,750
1990 MWh generated: 22,224
1990 MWh purchased: 241,371
1990 MWh sold: 236,379
1990 revenues: $14,045,000
established 1904

Holly Springs Electric Department
Highway 4 E., Box 520
Holly Springs, Miss. 38635
(601) 252-4411
Tom Boone, General Manager
customers: 12,084
1990 MWh generated: 0
1990 MWh purchased: 202,255 (TVA)
1990 MWh sold: 189,357
1990 revenues: $10,894,000
established 1890

Itta Bena, City of
Box 563
Itta Bena, Miss. 38941
(601) 254-7231
James Peeples, Superintendent
customers: 1,162
1990 MWh generated: 0
1990 MWh purchased: 13,313
1990 MWh sold: 11,582
1990 revenues: $928,000

Kosciusko, City of*
Box 486
Kosciusko, Miss. 39090
(601) 289-1141
Charles E. Burchfield, Superintendent
customers: 3,195
1990 MWh generated: 0
1990 MWh purchased: 59,767
1990 MWh sold: 51,699
1990 revenues: $3,855,000
established 1919

Leland, City of*
101 Deer Creek Drive
Leland, Miss. 38756
(601) 686-7623
Joe Melton, Superintendent
customers: 2,501
1990 MWh generated: 0
1990 MWh purchased: 30,302
1990 MWh sold: 27,751
1990 revenues: $2,108,000

Louisville Utilities
Box 849
Louisville, Miss. 39339
(601) 773-7147
Tommy Lee Kirkpatrick, Manager
customers: 3,488
1990 MWh generated: 0
1990 MWh purchased: 152,981 (TVA)
1990 MWh sold: 146,584
1990 revenues: $8,098,000
established 1939

Macon Electric Department
105 W. Pulaski St., Box 146
Macon, Miss. 39341
(601) 726-5251
Richard Schimmel, Superintendent
customers: 1,295
1990 MWh generated: 0
1990 MWh purchased: 23,495 (TVA)
1990 MWh sold: 21,485
1990 revenues: $1,387,000
established 1927

Municipal Energy Agency of Missisaippi*
600 E. Amite St., Suite 101
Jackson, Miss. 39201
(601) 353-4763
C. Neil Davis, General Manager
customers: wholesale only
1990 MWh generated: 0
1990 MWh purchased: 765,944
1990 MWh sold: wholesale: 765,944
1990 revenues: wholesale: $27,572,000
established 1978
(see expanded joint action agency section, page 140)

New Albany Light, Gas & Water Department*
100 Cleveland St., Box 236
New Albany, Miss. 38652
(406) 534-1041
Harold G. Smith, Manager
customers: 10,229
1990 MWh generated: 0
1990 MWh purchased: 211,375 (TVA)
1990 MWh sold: 188,976
1990 revenues: $11,243,000
established 1934

Okolona, City of
Box 111
Okolona, Miss. 38860
(601) 447-5482
Jerry Ledbetter, Manager
customers: 4,535
1990 MWh generated: 0
1990 MWh purchased: 80,797 (TVA)
1990 MWh sold: 74,253
1990 revenues: $4,621,000
established 1935

Oxford Electric Department*
107 South Lamar, Box 827
Oxford, Miss. 38655
(601) 232-2371
Johnny G. Earnest, Superintendent
customers: 5,313
1990 MWh generated: 0
1990 MWh purchased: 134,048 (TVA)
1990 MWh sold: 128,059
1990 revenues: $6,798,000
established 1896

Philadelphia Utilities
435 E. Myrtle St., Box 88
Philadelphia, Miss. 39350
(601) 656-1121
John Burt, Manager
customers: 3,554
1990 MWh generated: 0
1990 MWh purchased: 121,617 (TVA)
1990 MWh sold: 116,543
1990 revenues: $6,665,000
established 1939

Starkville Electric System
Box 927
Starkville, Miss. 39759
(601) 323-3272
Clay Campbell, General Manager
customers: 8,684
1990 MWh generated: 0
1990 MWh purchased: 303,371 (TVA)
1990 MWh sold: 286,605
1990 revenues: $15,924,000
established 1939

Tupelo Water & Light Department
Box 588
Tupelo, Miss. 38802
(601) 842-6460
Charles F. Hutchison, Manager
customers: 13,732
1990 MWh generated: 0
1990 MWh purchased: 578,537 (TVA)
1990 MWh sold: 552,253
1990 revenues: $29,698,000
established 1900

Water Valley, City of
Box 231
Water Valley, Miss. 38965
(601) 473-3326
Roy Stevens, Manager
customers: 1,936
1990 MWh generated: 0
1990 MWh purchased: 70,218 (TVA)
1990 MWh sold: 66,585
1990 revenues: $3,863,000
established 1938

West Point Electric System
331 Washington St.
West Point, Miss. 39773
(601) 494-2262
Dewell Brasher, Superintendent
customers: 3,947
1990 MWh generated: 0
1990 MWh purchased: 172,031 (TVA)
1990 MWh sold: 166,905
1990 revenues: $9,338,000
established 1958

Yazoo City Public Service Commission*
125 W. Commercial St., Box 660
Yazoo City, Miss. 39194
(601) 746-3741
Robert D. Priest, Manager
customers: 6,112
nameplate capacity (kW): gas: 31,650
1990 MWh generated: -586
1990 MWh purchased: 99,763

---

* Member, American Public Power Association
† Member, Demonstration of Energy-Efficient Developments Program

1990 MWh sold: 91,837
1990 revenues: retail: $5,617,000
wholesale: $229,000
established 1903

Missouri

Albany, City of
106 E. Clay St.
Albany, Mo. 64402
(816) 726-3935
Lynn Ratliff, City Administrator
customers: 1,003
nameplate capacity (kW): oil: 6,550
1990 MWh generated: 112
1990 MWh purchased: 15,297
1990 MWh sold: 13,289
1990 revenues: $759,000

Ava, City of
Box 946
Ava, Mo. 65608
(417) 683-4122
James Norman, Mayor
customers: 1,434
1990 MWh generated: 0
1990 MWh purchased: 40,158
1990 MWh sold: 37,288
1990 revenues: $2,081,000

Bethany, City of
218 W. 16th St., Box 344
Bethany, Mo. 64424
(816) 425-3511
Larry D. Sanders, Superintendent
customers: 1,789
nameplate capacity (kW): oil: 8,450
1990 MWh generated: 581
1990 MWh purchased: 27,134
1990 MWh sold: 24,204
1990 revenues: $1,443,000

Butler, City of
101 N. Lyons St.
Butler, Mo. 64730
(816) 679-4182
Loren Appleberry, Electric Superintendent
customers: 2,155
nameplate capacity (kW): oil: 6,100
1990 MWh generated: 2,964
1990 MWh purchased: 23,160
1990 MWh sold: 21,350
1990 revenues: $1,921,000
established 1881

Cabool, City of
618 Main St.
Cabool, Mo. 65689
(417) 962-3136
Mike MacPherson, City Administrator
customers: 971
1990 MWh generated: 0
1990 MWh purchased: 32,088
1990 MWh sold: 28,214
1990 revenues: $1,784,000
established 1948

California, City of
Highway 50 W.
California, Mo. 65018
(314) 796-4591
Gary O. Wells, Superintendent
customers: 1,874
1990 MWh generated: 0
1990 MWh purchased: 27,800
1990 MWh sold: 22,597
1990 revenues: $1,715,000
established 1936

Cameron, City of
205-209 N. Main St.
Cameron, Mo. 64429
(816) 632-2177
Willard Peterson, Superintendent
customers: 2,436
1990 MWh generated: 0
1990 MWh purchased: 38,502
1990 MWh sold: 32,566
1990 revenues: $2,468,000
established 1924

Campbell, City of
202 W. Grand St.
Campbell, Mo. 63933
(314) 246-2541
Randall Baker, City Clerk
customers: 1,086
nameplate capacity (kW): oil: 4,996
1990 MWh generated: 475
1990 MWh purchased: 15,058
1990 MWh sold: 13,743
1990 revenues: $983,000

Carrollton Municipal Utilities*
707 S. Main St., Box 460
Carrollton, Mo. 64633
(816) 542-0360
Lowell L. Anderson, Superintendent
customers: 2,228
nameplate capacity (kW): gas: 21,515; oil: 704
1990 MWh generated: 1,141
1990 MWh purchased: 35,746
1990 MWh sold: 29,682
1990 revenues: $1,825,000
established 1941

Carthage Water and Electric Plant*
149 E. Third St., Drawer 611
Carthage, Mo. 64836
(417) 358-5904
Wayne Weber, General Superintendent
customers: 6,438
nameplate capacity (kW): gas: 41,800
1990 MWh generated: 2,369
1990 MWh purchased: 163,287
1990 MWh sold: retail: 149,995
wholesale: 1,790
1990 revenues: retail: $7,118,000
wholesale: $226,000
established 1898

Centralia, City of
114 S. Rollins St.
Centralia, Mo. 65240
(314) 682-2139
Lynn P. Behrns, City Administrator
customers: 1,700
1990 MWh generated: 0
1990 MWh purchased: 20,000
1990 MWh sold: 19,000
1990 revenues: $1,333,000
established 1916

Chillicothe, City of*
715 Washington St., Box 140
Chillicothe, Mo. 64601-0140
(816) 646-1664
Ray Blakely, General Manager
customers: 4,551
nameplate capacity (kW): coal: 11,000; gas: 80,000
1990 MWh generated: 16,741
1990 MWh purchased: 75,000
1990 MWh sold: 81,921
1990 revenues: $5,730,000
established 1911

Clarksville, City of
111 Howard St., Box 528
Clarksville, Mo. 63336
(314) 242-3553
D. Kent Taylor, Superintendent
customers: 373
1990 MWh generated: 0
1990 MWh purchased: 3,834
1990 MWh sold: 3,467
1990 revenues: $317,000
established 1939

Columbia Water & Light†*
701 E. Broadway, Box N
Columbia, Mo. 65205
(314) 874-7325
Richard E. Malon, Director
customers: 26,580
nameplate capacity (kW): coal: 38,500; gas: 47,500
1990 MWh generated: 46,469
1990 MWh purchased: 618,187
1990 MWh sold: 632,198
1990 revenues: $40,674,000
established 1904

Crane, City of
120 N. Commerce St., Box 17
Crane, Mo. 65633
(417) 723-5990
Jack Swearingen, Director of Public Works
customers: 629
1990 MWh generated: 0
1990 MWh purchased: 11,900
1990 MWh sold: 9,900
1990 revenues: $712,000
established 1963

Cuba, City of
202 N. Smith St.
Cuba, Mo. 65453
(314) 885-7432
Paul D. Dickens, Superintendent
customers: 1,481
1990 MWh generated: 0
1990 MWh purchased: 38,260
1990 MWh sold: 33,910
1990 revenues: $2,368,000

Easton, City of
106 N. Woodward, Box 75
Easton, Mo. 64443
(816) 473-4571
Tammy Smith, Clerk
customers: 100
1990 MWh generated: 0
1990 MWh purchased: 1,394
1990 MWh sold: 1,236
1990 revenues: $85,000

El Dorado Springs, City of
127 West Spring St.
El Dorado Springs, Mo. 64744
(417) 876-2521
Clay Sanders, Utilities Director
customers: 1,953
1990 MWh generated: 0
1990 MWh purchased: 36,077
1990 MWh sold: 30,759
1990 revenues: $2,057,000
established 1939

Farmington, City of*
110 W. Columbia St.
Farmington, Mo. 63640
(314) 756-2620
P. W. Sheppard, Superintendent
customers: 4,219
1990 MWh generated: 0
1990 MWh purchased: 95,752
1990 MWh sold: 91,336
1990 revenues: $5,906,000
established 1900

Fayette, City of
117 S. Main St.
Fayette, Mo. 65248
(816) 248-2784
Bobby Gerlt, Superintendent
customers: 1,228
nameplate capacity (kW): oil: 10,986
1990 MWh generated: 558
1990 MWh purchased: 16,768
1990 MWh sold: 14,749
1990 revenues: $1,450,000
established 1932

Fredericktown City Light & Power*
120 W. Main St.
Fredericktown, Mo. 63645
(314) 783-3475
Robert D. Smith, Manager
customers: 2,004
1990 MWh generated: 0
1990 MWh purchased: 35,640
1990 MWh sold: 33,017
1990 revenues: $2,291,000
established 1948

Fulton, City of*
Fourth and Market St.
Fulton, Mo. 65251
(314) 642-6655
Joel Mahnken, Superintendent
customers: 4,273
nameplate capacity (kW): gas: 32,650
1990 MWh generated: 421
1990 MWh purchased: 118,323
1990 MWh sold: 101,320
1990 revenues: $7,192,000
established 1895

Gallatin Municipal Utilities
112 E. Grand
Gallatin, Mo. 64640
(816) 663-3331
Tim Slavin, Superintendent
customers: 1,125
nameplate capacity (kW): oil: 6,500
1990 MWh generated: 750
1990 MWh purchased: 17,000
1990 MWh sold: 15,296
1990 revenues: $938,000
established 1912

Galt, City of
Box 86
Galt, Mo. 64641-0086
(816) 673-6514
Robert Allen, Superintendent
customers: 175
1990 MWh generated: 0
1990 MWh purchased: 2,759
1990 MWh sold: 2,569
1990 revenues: $145,000

Gilman City, City of
Gilman City, Mo. 64642
(816) 876-5230
Larry Hyre, Superintendent
customers: 237
1990 MWh generated: 0
1990 MWh purchased: 1,842
1990 MWh sold: 1,560
1990 revenues: $126,000

Hannibal, City of*
City Hall, 324 Broadway
Hannibal, Mo. 63401
(314) 221-8050
Owen Ransdell, Superintendent
customers: 8,527
1990 MWh generated: 0
1990 MWh purchased: 174,168
1990 MWh sold: 156,489
1990 revenues: $9,139,000
established 1886

Harrisonville, City of
300 E. Pearl St., Box 367
Harrisonville, Mo. 64701
(816) 884-3285
Damon Bartles, City Administrator
customers: 3,439
1990 MWh generated: 0
1990 MWh purchased: 64,044
1990 MWh sold: 58,539
1990 revenues: $3,128,000
established 1929

Hermann, City of*
207 Schiller St.
Hermann, Mo. 65041
(314) 486-5400
Michael Hill, Light & Power Superintendent
customers: 1,506
1990 MWh generated: 0
1990 MWh purchased: 37,101
1990 MWh sold: 34,040
1990 revenues: $2,327,000
established 1953

MISSOURI *(continued)*

Higginsville, City of*
1922 Main St.
Higginsville, Mo. 64037
(816) 584-2106
David I. Blanchard, City Administrator
customers: 2,200
nameplate capacity (kW): oil: 4,900
1990 MWh generated: 1,701
1990 MWh purchased: 43,700
1990 MWh sold: 41,194
1990 revenues: $2,968,000
established 1904

Houston, City of
111 W. Main St.
Houston, Mo. 65483
(417) 967-3187
Stan Kasiske, Administrator
customers: 1,180
1990 MWh generated: 0
1990 MWh purchased: 27,200
1990 MWh sold: 26,300
1990 revenues: $1,846,000
established 1951

Hunnewell, City of
108 W. Maple, Box 87
Hunnewell, Mo. 63443
(314) 983-2264
Vivien Coon, Mayor
customers: 130
1990 MWh generated: 0
1990 MWh purchased: 939
1990 MWh sold: 765
1990 revenues: $65,000
established 1914

Independence, City of*
21500 E. Truman Road
Independence, Mo. 64050
(816) 796-4400
James Harder, Utility Director
customers: 48,194
nameplate capacity (kW): coal: 148,222; gas: 80,600; oil: 96,900
1990 MWh generated: 88,318
1990 MWh purchased: 733,293
1990 MWh sold: retail: 749,950
wholesale: 9,331
1990 revenues: retail: $52,251,000
wholesale: $872,000
established 1901

Jackson, City of*
225 S. High St.
Jackson, Mo. 63755
(314) 243-3536
Carl L. Talley, City Administrator
customers: 4,379
nameplate capacity (kW): oil: 22,300
1990 MWh generated: 2,233
1990 MWh purchased: 85,700
1990 MWh sold: 80,470
1990 revenues: $5,437,000
established 1905

Kahoka, City of
275 N. Washington St
Kahoka, Mo. 63445
(816) 727-2512
Lary K. Fountain, City Superintendent
customers: 1,100
nameplate capacity (kW): gas: 3,300; oil: 984
1990 MWh generated: 1,551
1990 MWh purchased: 14,395
1990 MWh sold: 13,006
1990 revenues: $828,000

Kennett, City of*
200 Kennett St.
Kennett, Mo. 63857
(314) 888-2835
Larry V. Jones, Superintendent
customers: 5,528
nameplate capacity (kW): gas: 28,850; oil: 3,056
1990 MWh generated: -70
1990 MWh purchased: 141,433
1990 MWh sold: 133,703
1990 revenues: $4,224,000
established 1942

Kirkwood, City of*
212 S. Taylor Ave.
Kirkwood, Mo. 63122
(314) 822-5842
Robert Morse, Director
customers: 9,219
1990 MWh generated: 0
1990 MWh purchased: 174,255
1990 MWh sold: 164,460
1990 revenues: $11,811,000
established 1900

La Plata, City of
101 S. Gex St.
La Plata, Mo. 63549
(816) 332-7212
Richard Crawford, Superintendent
customers: 704
nameplate capacity (kW): oil: 1,800
1990 MWh generated: 44
1990 MWh purchased: 17,757
1990 MWh sold: 17,315
1990 revenues: $1,050,000
established 1938

Lamar, City of*
1104 Broadway St.
Lamar, Mo. 64759
(417) 682-5554
Lynn Calton, City Administrator
customers: 2,249
1990 MWh generated: 0
1990 MWh purchased: 58,000
1990 MWh sold: 55,000
1990 revenues: $2,128,000
established 1900

Lebanon, City of
400 S. Madison St.
Lebanon, Mo. 65536
(417) 532-2156
Bill Lawson, Superintendent
customers: 4,716
1990 MWh generated: 0
1990 MWh purchased: 150,752
1990 MWh sold: 129,795
1990 revenues: $7,241,000

Liberal, City of
Box 67
Liberal, Mo. 64762
(417) 843-2135
Mark Charlton, City Administrator
customers: 457
1990 MWh generated: 0
1990 MWh purchased: 4,314
1990 MWh sold: 3,665
1990 revenues: $280,000
established 1935

Linneus, City of
Box 144
Linneus, Mo. 64653
(816) 895-5583
Danny Truitt, Superintendent
customers: 208
1990 MWh generated: 0
1990 MWh purchased: 1,962
1990 MWh sold: 1,962
1990 revenues: $134,000

Lockwood Water & Light Co.
107 E. Eighth St., Box O
Lockwood, Mo. 65682
(417) 232-4221
Hubert Litle, City Superintendent
customers: 592
1990 MWh generated: 0
1990 MWh purchased: 8,626
1990 MWh sold: 8,000
1990 revenues: $489,000

Macon Municipal Utilities†*
121-123 W. Bourke St., Box 569
Macon, Mo. 63552
(816) 385-3173
C. R. Bashford, Superintendent
customers: 2,735
nameplate capacity (kW): oil: 12,750
1990 MWh generated: 155
1990 MWh purchased: 75,262
1990 MWh sold: 71,659
1990 revenues: $3,909,000
established 1890

Malden Board of Public Works†*
111 E. Laclede St.
Malden, Mo. 63863-2296
(314) 276-2238
Joe Russell, General Superintendent
customers: 2,550
nameplate capacity (kW): gas: 13,950
1990 MWh generated: 184
1990 MWh purchased: 57,585
1990 MWh sold: 51,274
1990 revenues: $2,925,000
established 1896

Mansfield, City of
City Hall
Mansfield, Mo. 65704
(417) 924-3719
James Brooke, City Superintendent
customers: 680
1990 MWh generated: 0
1990 MWh purchased: 23,780
1990 MWh sold: 23,780
1990 revenues: $1,427,000
established 1963

Marceline Municipal Utilities
116 N. Kansas Ave.
Marceline, Mo. 64658
(816) 376-3528
Lanny Holt, Superintendent
customers: 1,388
nameplate capacity (kW): unavailable
1990 MWh generated: 403
1990 MWh purchased: 30,594
1990 MWh sold: 24,912
1990 revenues: $1,759,000

Marshall Municipal Utilities*
75 E. Morgan St.
Marshall, Mo. 65340
(816) 886-6966
Paul E. Jensen, General Manager
customers: 5,673
nameplate capacity (kW): gas: 27,000; oil: 15,200
1990 MWh generated: 66,334
1990 MWh purchased: 81,911
1990 MWh sold: 139,863
1990 revenues: $8,935,000
established 1920

Meadville, City of
Box 122
Meadville, Mo. 64659
(816) 938-4414
Bobby J. Holcer, Clerk
customers: 273
1990 MWh generated: 0
1990 MWh purchased: 2,420
1990 MWh sold: 2,420
1990 revenues: $182,000

Memphis, City of*
135 S. Main St.
Memphis, Mo. 63555
(816) 465-2003
Paul C. Luscombe, Superintendent
customers: 1,333
nameplate capacity (kW): gas: 3,405; oil: 4,724
1990 MWh generated: 250
1990 MWh purchased: 14,881
1990 MWh sold: 14,881
1990 revenues: $1,052,000
established 1919

Milan, City of
201 N. Market St.
Milan, Mo. 63556
(816) 265-4411
Edward Sayre, Superintendent
customers: 946
1990 MWh generated: 0
1990 MWh purchased: 22,910
1990 MWh sold: 21,576
1990 revenues: $1,298,000

Mindenmines, City of
508 N. Main St., Box 115
Mindenmines, Mo. 64769
(417) 842-3216
John Waring, Superintendent
customers: 158
1990 MWh generated: 0
1990 MWh purchased: 1,673
1990 MWh sold: 1,414
1990 revenues: $108,000
established 1922

Monett, City of*
217 Fifth St., Box 110
Monett, Mo. 65708
(417) 235-3300
Lessley Shelton, Superintendent
customers: 3,815
1990 MWh generated: 0
1990 MWh purchased: 141,609
1990 MWh sold: 137,777
1990 revenues: $6,915,000
established 1893

Monroe City, City of
300 N. Main St., Box 67
Monroe City, Mo. 63456
(314) 735-4441
Art Buckwalter, Superintendent
customers: 1,349
nameplate capacity (kW): gas: 6,616; oil: 8,895
1990 MWh generated: 1,103
1990 MWh purchased: 45,725
1990 MWh sold: 45,282
1990 revenues: $2,108,000
established 1902

Mount Vernon, City of
319 E. Dallas, Box 70
Mount Vernon, Mo. 65712
(417) 466-2122
Jack Swearingen, General Superintendent
customers: 1,756
1990 MWh generated: 0
1990 MWh purchased: 42,571
1990 MWh sold: 36,411
1990 revenues: $1,698,000
established 1938

Mountain View, City of
149 E. 2nd St., Box 115
Mountain View, Mo. 65548
(417) 934-2601
Robert Young, City Administrator
customers: 1,085
1990 MWh generated: 0
1990 MWh purchased: 27,366
1990 MWh sold: 25,796
1990 revenues: $1,546,000
established 1964

New Madrid, City of*
560 Mott St., Box 96
New Madrid, Mo. 63869
(314) 748-2458
Donald G. Lloyd, City Administrator
customers: 1,617
1990 MWh generated: 0
1990 MWh purchased: 42,390
1990 MWh sold: 36,912
1990 revenues: $1,528,000
established 1938

---

* Member, American Public Power Association
† Member, Demonstration of Energy-Efficient Developments Program

Newburg, City of
Second & Main Sts.
Newburg, Mo. 65550
(314) 762-2315
Barbara Macormic, Clerk
customers: 442
1990 MWh generated: 0
1990 MWh purchased: 3,947
1990 MWh sold: 3,255
1990 revenues: $216,000

Nixa, City of
Box 395
Nixa, Mo. 65714
(417) 725-3785
Jan M. Blase, Administrator
customers: 2,217
1990 MWh generated: 0
1990 MWh purchased: 34,058
1990 MWh sold: 32,177
1990 revenues: $1,312,000
established 1967

Odessa, City of
Ninth and Dryden St., Box 128
Odessa, Mo. 64076
(816) 633-5521
Mike Tholen, City Administrator
customers: 1,621
nameplate capacity (kW): oil: 8,195
1990 MWh generated: 6,582
1990 MWh purchased: 26,381
1990 MWh sold: 29,508
1990 revenues: $1,977,000
established 1939

Osceola Municipal Utilities
Second and Walnut St., Box 321
Osceola, Mo. 64776
(417) 646-8421
J. Hartley, President
customers: 412
1990 MWh generated: 0
1990 MWh purchased: 5,569
1990 MWh sold: 5,081
1990 revenues: $347,000
established 1971

Owensville, City of
109 N. Second St.
Owensville, Mo. 65066
(314) 437-2180
Alva Cahill, Plant Superintendent
customers: 1,337
nameplate capacity (kW): oil: 3,175
1990 MWh generated: 779
1990 MWh purchased: 22,726
1990 MWh sold: 19,837
1990 revenues: $1,388,000
established 1938

Palmyra, City of*
301 S. Main St.
Palmyra, Mo. 63461
(314) 769-3329
William D. Huffman, Superintendent
customers: 1,793
nameplate capacity (kW): oil: 10,390
1990 MWh generated: 1,437
1990 MWh purchased: 28,554
1990 MWh sold: 26,367
1990 revenues: $1,702,000
established 1912

Paris, City of
124 W. Campbell
Paris, Mo. 65275
(816) 327-4334
James Hayhurst, Electric Superintendent
customers: 792
1990 MWh generated: 0
1990 MWh purchased: 11,236
1990 MWh sold: 10,004
1990 revenues: $792,000

Pattonsburg, City of
Box 206
Pattonsburg, Mo. 64670
(816) 367-4412
Billy Fleming, Superintendent
customers: 264
nameplate capacity (kW): oil: 796
1990 MWh generated: 0
1990 MWh purchased: 3,708
1990 MWh sold: 2,671
1990 revenues: $219,000
established 1934

Perry, City of
127 E. Main St., Box 280
Perry, Mo. 63462
(314) 565-3131
Herman McClain, Superintendent
customers: 431
1990 MWh generated: 0
1990 MWh purchased: 4,831
1990 MWh sold: 4,470
1990 revenues: $310,000

Pleasant Hill Utilities
203 Paul St.
Pleasant Hill, Mo. 64080
(816) 987-3153
Jerry Barbarick, Superintendent
customers: 1,742
1990 MWh generated: 0
1990 MWh purchased: 24,059
1990 MWh sold: 19,205
1990 revenues: $1,472,000
established 1939

Poplar Bluff, City of*
101 Oak St.
Poplar Bluff, Mo. 63901
(314) 686-8020
Doug Bagby, Manager
customers: 8,362
nameplate capacity (kW): unavailable
1990 MWh generated: 105
1990 MWh purchased: 242,464
1990 MWh sold: 215,606
1990 revenues: $9,144,000
established 1917

Rich Hill, City of
Seventh and Walnut Sts.
Rich Hill, Mo. 64779
(417) 395-4211
Joy DeTienne, Electric Superintendent
customers: 700
nameplate capacity (kW): oil: 1,100
1990 MWh generated: 0
1990 MWh purchased: 7,181
1990 MWh sold: 5,635
1990 revenues: $496,000

Richland, City of
Box 798
Richland, Mo. 65556
(314) 765-3532
Charles Forbis, City Administrator
customers: 1,117
1990 MWh generated: 0
1990 MWh purchased: 16,700
1990 MWh sold: 15,700
1990 revenues: $1,064,000
established 1946

Rock Port, City of
102 W. Clay St.
Rock Port, Mo. 64482
(816) 744-2676
Jimmie Hughes, Superintendent
customers: 808
nameplate capacity (kW): gas: 5,002; oil: 900
1990 MWh generated: 553
1990 MWh purchased: 12,745
1990 MWh sold: 11,413
1990 revenues: $782,000
established 1932

Rolla Municipal Utilities*
102 W. Ninth St., Box 767
Rolla, Mo. 65401-0767
(314) 364-1572
General Manager
customers: 6,463
1990 MWh generated: 0
1990 MWh purchased: 194,626
1990 MWh sold: 181,697
1990 revenues: $9,607,000
established 1945

St. James, City of
105 N. Bourbeuse St.
St. James, Mo. 65559
(314) 265-7011
Kenneth Young, Superintendent
customers: 1,713
1990 MWh generated: 0
1990 MWh purchased: 32,000
1990 MWh sold: 28,000
1990 revenues: $1,856,000

St. Robert, City of
Drawer H
St. Robert, Mo. 65583
(314) 336-3911
Jack Fincher, Superintendent
customers: 1,300
1990 MWh generated: 0
1990 MWh purchased: 30,822
1990 MWh sold: 28,243
1990 revenues: $1,400,000
established 1963

Salem, City of
Third and Grant Sts.
Salem, Mo. 65560
(314) 729-4117
Ray Lunsford, Superintendent
customers: 2,382
1990 MWh generated: 0
1990 MWh purchased: 45,300
1990 MWh sold: 43,200
1990 revenues: $2,444,000
established 1934

Salisbury, City of
Box 168
Salisbury, Mo. 65281
(816) 388-6197
David J. Millar, Superintendent
customers: 1,120
nameplate capacity (kW): unavailable
1990 MWh generated: 55
1990 MWh purchased: 16,899
1990 MWh sold: 14,551
1990 revenues: $922,000

Seymour, City of
Box 247
Seymour, Mo. 65746
(417) 935-4892
Don McWilliams, Clerk
customers: 799
1990 MWh generated: 0
1990 MWh purchased: 16,160
1990 MWh sold: 14,643
1990 revenues: $1,001,000

Shelbina, City of
127 W. Chestnut St.
Shelbina, Mo. 63468
(314) 588-2150
Dennie Fowler, City Superintendent
customers: 1,272
nameplate capacity (kW): unavailable
1990 MWh generated: 122
1990 MWh purchased: 19,628
1990 MWh sold: 17,618
1990 revenues: $1,209,000
established 1867

Sikeston, City of*
138 N. Prairie
Sikeston, Mo. 63801
(314) 471-3328
E. R. Inman, Director
customers: 11,307
nameplate capacity (kW): coal: 235,000; oil: 4,300
1990 MWh generated: 1,101,540
1990 MWh purchased: 203,970
1990 MWh sold: retail: 231,223
wholesale: 1,056,004
1990 revenues: retail: $12,123,000
wholesale: $41,398,000
established 1931

Slater, City of
109 N. Main St.
Slater, Mo. 65349
(816) 529-2271
Kevin G. Kenzenkovil, City Manager
customers: 1,251
1990 MWh generated: 0
1990 MWh purchased: 14,146
1990 MWh sold: 13,439
1990 revenues: $905,000

Springfield, City of†*
301 E. Central St., Box 551
Springfield, Mo. 65801
(417) 831-8601
Robert E. Roundtree, General Manager
customers: 75,367
nameplate capacity (kW): coal: 447,000; gas: 174,600; oil: 15,300
1990 MWh generated: 1,883,956
1990 MWh purchased: 428,401
1990 MWh sold: retail: 1,900,691
wholesale: 320,542
1990 revenues: retail: $87,131,000
wholesale: $8,214,000
established 1945

Stanberry, City of
First and Locust Sts.
Stanberry, Mo. 64489
(816) 783-2725
Fred Helm, City Administrator
customers: 747
nameplate capacity (kW): gas: 4,158; oil: 950
1990 MWh generated: 47
1990 MWh purchased: 10,098
1990 MWh sold: 8,899
1990 revenues: $555,000
established 1937

Steelville, City of
103 Brickey, Box M
Steelville, Mo. 65565
(314) 775-2815
James A. Taylor, City Superintendent
customers: 762
1990 MWh generated: 0
1990 MWh purchased: 16,308
1990 MWh sold: 13,951
1990 revenues: $969,000

Sullivan, City of
210 W. Washington
Sullivan, Mo. 63080
(314) 468-4612
Joseph Thurmond, Light Commissioner
customers: 2,898
1990 MWh generated: 0
1990 MWh purchased: 72,132
1990 MWh sold: 66,927
1990 revenues: $3,699,000
established 1942

Thayer, City of
Second and Market Sts., Box 76
Thayer, Mo. 65791
(417) 264-3921
James Bowers, Superintendent
customers: 935
1990 MWh generated: 0
1990 MWh purchased: 15,354
1990 MWh sold: 11,519
1990 revenues: $847,000

MISSOURI *(continued)*

Trenton Municipal Utilities*
115 E. Tenth St.
Trenton, Mo. 64683
(816) 359-2281
Buddy Bennett, Superintendent
customers: 3,236
nameplate capacity (kW): oil: 18,950
1990 MWh generated: 1,178
1990 MWh purchased: 67,512
1990 MWh sold: 62,506
1990 revenues: $3,990,000
established 1937

Unionville, City of*
1611 Grant St.
Unionville, Mo. 63565
(816) 947-2168
Dennie Sheehan, Superintendent
customers: 1,687
nameplate capacity (kW): oil: 7,056
1990 MWh generated: 10
1990 MWh purchased: 15,038
1990 MWh sold: 14,430
1990 revenues: $804,000
established 1921

Vandalia, City of*
202 E. Park St.
Vandalia, Mo. 63382
(314) 594-3405
William Hicks, Superintendent
customers: 1,450
nameplate capacity (kW): gas: 7,760; oil: 600
1990 MWh generated: 105
1990 MWh purchased: 15,854
1990 MWh sold: 13,665
1990 revenues: $995,000
established 1938

Waynesville, City of
201 North St.
Waynesville, Mo. 65583
(314) 774-6171
John T. Tinsley, City Administrator
customers: 1,396
1990 MWh generated: 0
1990 MWh purchased: 25,768
1990 MWh sold: 23,221
1990 revenues: $1,423,000
established 1963

West Plains, City of
1910 Holiday Lane
West Plains, Mo. 65775
(417) 256-7176
Jim Davidson, Power Coordinator
customers: 4,294
1990 MWh generated: 0
1990 MWh purchased: 130,391
1990 MWh sold: 115,712
1990 revenues: $6,758,000
established 1908

Willow Springs, City of
123 E. Second St.
Willow Springs, Mo. 65793
(417) 469-2107
Bob Biehl, Utility Superintendent
customers: 1,164
1990 MWh generated: 0
1990 MWh purchased: 22,622
1990 MWh sold: 19,950
1990 reven[illegible],397,000

Winona, City of
Box 426
Winona, Mo. 65588
(314) 325-4443
Sharon K. Davis, Clerk
customers: 513
1990 MWh generated: 0
1990 MWh purchased: 7,942
1990 MWh sold: 6,924
1990 revenues: $493,000
established 1888

Montana

Troy Power & Light
Box 823
Troy, Mont. 59935
(406) 295-4540
Frank Hallock, Power Manager
customers: 894
1990 MWh generated: 0
1990 MWh purchased: 14,696
1990 MWh sold: 13,598
1990 revenues: $610,000
established 1987

Nebraska

Alliance, City of†*
324 Laramie Ave., Box D
Alliance, Neb. 69301
(308) 762-5400
Dick Bacon, Electrical Superintendent
customers: 6,369
nameplate capacity (kW): gas: 7,500
1990 MWh generated: 0
1990 MWh purchased: 98,985
1990 MWh sold: 89,574
1990 revenues: $5,460,000
established 1916

Ansley, City of*
Box 307
Ansley, Neb. 68814
(308) 935-1400
Richard Amsberry, Utility Superintendent
customers: 332
nameplate capacity (kW): gas: 1,540; oil: 245
1990 MWh generated: 4
1990 MWh purchased: 3,530
1990 MWh sold: 3,162
1990 revenues: $210,000
established 1914

Arapahoe, City of*
Box 235
Arapahoe, Neb. 68922-0235
(308) 962-7414
Wesley Smith, Superintendent
customers: 618
1990 MWh generated: 0
1990 MWh purchased: 7,582
1990 MWh sold: 7,221
1990 revenues: $565,000
established 1921

Arnold, Village of†*
209 W. First St., Box 35
Arnold, Neb. 69120
(308) 848-2228
Michael Lucas, Utilities Superintendent
customers: 526
nameplate capacity (kW): oil: 1,210
1990 MWh generated: 6
1990 MWh purchased: 7,141
1990 MWh sold: 6,253
1990 revenues: $307,000
established 1937

Auburn Board of Public Works†*
1600 O St., Box 288
Auburn, Neb. 68305-0288
(402) 274-4981
Lambert Blecha, General Manager
customers: 2,655
nameplate capacity (kW): gas: 16,200; oil: 700
1990 MWh generated: -281
1990 MWh purchased: 46,812
1990 MWh sold: 43,340
1990 revenues: $2,261,000
established 1939

Bartley, Village of
301 W. Walnut, Box 205
Bartley, Neb. 69020
(308) 692-3213
Melvin Meguire, Superintendent
customers: 197
1990 MWh generated: 0
1990 MWh purchased: 1,904
1990 MWh sold: 1,356
1990 revenues: $138,000
established 1925

Battle Creek, City of*
101 E. Main St
Battle Creek, Neb. 68715
(402) 675-2165
Jim Schacher, Utilities Superintendent
customers: 595
1990 MWh generated: 0
1990 MWh purchased: 9,472
1990 MWh sold: 8,375
1990 revenues: $557,000
established 1948

Bayard, City of†*
445 Main St., Box 160
Bayard, Neb. 69334
(308) 586-1121
L. G. Sanchez, Superintendent
customers: 638
1990 MWh generated: 0
1990 MWh purchased: 16,002
1990 MWh sold: 14,233
1990 revenues: $621,000

Beatrice, City of*
205 N. Fourth St., Box 279
Beatrice, Neb. 68310-0279
(402) 223-5211
James Bauer, General Manager
customers: 6,662
1990 MWh generated: 0
1990 MWh purchased: 118,453
1990 MWh sold: 109,784
1990 revenues: $5,839,000
established 1947

Beaver City Light Plant†*
Box 185
Beaver City, Neb. 68926
(308) 268-2125
Dennis Chesterman, Utilities Superintendent
customers: 428
nameplate capacity (kW): gas: 1,260; oil: 800
1990 MWh generated: 15
1990 MWh purchased: 4,387
1990 MWh sold: 4,402
1990 revenues: $331,000
established 1912

Benkelman, City of*
126 Seventh Ave. E., Box 197
Benkelman, Neb. 69021
(308) 423-2540
Wilmer Seybold, Utilities Superintendent
customers: 654
nameplate capacity (kW): oil: 1,200
1990 MWh generated: 0
1990 MWh purchased: 9,589
1990 MWh sold: 8,618
1990 revenues: $616,000
established 1913

Blue Hill, City of†*
Box 277
Blue Hill, Neb. 68930
(402) 756-3771
Gary Stertz, Electrical Superintendent
customers: 452
nameplate capacity (kW): unavailable
1990 MWh generated: 16
1990 MWh purchased: 6,570
1990 MWh sold: 5,541
1990 revenues: $255,000
established 1910

Bradshaw, Village of*
430 Lincoln St.
Bradshaw, Neb. 68319
(402) 736-4634
James Gordan, Utility Superintendent
customers: 172
1990 MWh generated: 0
1990 MWh purchased: 2,290
1990 MWh sold: 2,004
1990 revenues: $159,000

Brainard, Village of
Box 127
Brainard, Neb. 68626
(402) 545-2701
Raymond Stolze, Superintendent
customers: 200
1990 MWh generated: 0
1990 MWh purchased: 2,903
1990 MWh sold: 2,391
1990 revenues: $184,000

Bridgeport, City of*
809 Main St.
Bridgeport, Neb. 69336
(308) 262-0617
Charles E. Brandt Jr., Superintendent
customers: 907
1990 MWh generated: 0
1990 MWh purchased: 13,072
1990 MWh sold: 10,772
1990 revenues: $552,000
established 1950

Broken Bow, City of†*
314 S. Tenth, Box 567
Broken Bow, Neb. 68822
(308) 872-6884
Robert C. Jacobsen, Superintendent
customers: 2,264
nameplate capacity (kW): gas: 8,200; oil: 500
1990 MWh generated: 2,127
1990 MWh purchased: 44,243
1990 MWh sold: 41,730
1990 revenues: $1,736,000
established 1915

Burt County Public Power District
613 N. 13th St., Box 209
Tekamah, Neb. 68061
(402) 374-2631
Raymond Carlson, General Manager
customers: 3,761
1990 MWh generated: 0
1990 MWh purchased: 83,784
1990 MWh sold: retail: 69,023
wholesale: 4,954
1990 revenues: retail: $4,294,000
wholesale: $188,000
established 1935

Burwell, City of†*
Box 604
Burwell, Neb. 68823
(308) 346-4898
Robert Beat, City Administrator
customers: 749
nameplate capacity (kW): gas: 3,401; oil: 675
1990 MWh generated: 70
1990 MWh purchased: 9,447
1990 MWh sold: 8,581
1990 revenues: $557,000
established 1918

Butler County Rural Public Power District
1331 Fourth St., Box 349
David City, Neb. 68632
(402) 367-3081
George E. Cunningham, General Manager
customers: 3,981
1990 MWh generated: 0
1990 MWh purchased: 67,782

---

* Member, American Public Power Association
† Member, Demonstration of Energy-Efficient Developments Program

1990 MWh sold: 59,616
1990 revenues: $3,846,000
established 1937

Callaway, Village of†*
Box 157
Callaway, Neb. 68825
(308) 836-2262
Larry Nelson, Utilities Superintendent
customers: 325
nameplate capacity (kW): oil: 900
1990 MWh generated: 0
1990 MWh purchased: 5,708
1990 MWh sold: 4,993
1990 revenues: $218,000
established 1912

Cambridge, City of
722 Patterson St.
Cambridge, Neb. 69022
(308) 697-3713
Mike Macke, Utility Supervisor
customers: 623
nameplate capacity (kW): oil: 3,015
1990 MWh generated: 21
1990 MWh purchased: 9,079
1990 MWh sold: 8,233
1990 revenues: $479,000
established 1909

Campbell, Village of
Box 215
Campbell, Neb. 68932
(402) 756-8111
Greg L'Heureux, Superintendent
customers: 235
nameplate capacity (kW): oil: 1,240
1990 MWh generated: 68
1990 MWh purchased: 2,977
1990 MWh sold: 2,688
1990 revenues: $167,000
established 1910

Cedar-Knox Public Power District
Box 397
Hartington, Neb. 68739
(402) 254-6291
William Meyer, Manager
customers: 4,312
1990 MWh generated: 0
1990 MWh purchased: 106,000
1990 MWh sold: retail: 92,000
wholesale: 5,000
1990 revenues: retail: $4,797,000
wholesale: $148,000
established 1937

Central City, City of*
Box 418
Central City, Neb. 68826
(308) 946-2771
Jack Merrill, Electric Commissioner
customers: 1,598
1990 MWh generated: 0
1990 MWh purchased: 23,664
1990 MWh sold: 22,873
1990 revenues: $1,534,000
established 1909

Central Nebraska Public Power & Irrigation District†*
415 Lincoln St., Box 740
Holdrege, Neb. 68949
(308) 995-8601
Frank J. Dragoun, General Manager
customers: wholesale only
nameplate capacity (kW): hydro: 105,000; gas: 108,800
1990 MWh generated: 461,279
1990 MWh purchased: 0
1990 MWh sold: wholesale: 461,279
1990 revenues: wholesale: $11,674,000
established 1933

Chappell, City of†*
757 Second St.
Chappell, Neb. 69129
(308) 874-2401
Gordon Adkins, Superintendent
customers: 704
nameplate capacity (kW): oil: 1,375
1990 MWh generated: 5
1990 MWh purchased: 10,000
1990 MWh sold: 9,192
1990 revenues: $581,000
established 1911

Chester, Village of
621 Thayer Ave., Box 335
Chester, Neb. 68327
(402) 324-5755
Alan Porter, Board Chairman
customers: 247
1990 MWh generated: 0
1990 MWh purchased: 2,774
1990 MWh sold: 2,467
1990 revenues: $176,000
established 1920

Chimney Rock Public Power District
805 W. Eighth St., Box 608
Bayard, Neb. 69334
(308) 586-1824
James Reiber, Manager
customers: 2,153
1990 MWh generated: 0
1990 MWh purchased: 40,116
1990 MWh sold: 34,199
1990 revenues: $2,450,000
established 1936

Clarkson, City of*
Box 502
Clarkson, Neb. 68629
(402) 892-3100
Fred J. Wacha, Mayor
customers: 435
1990 MWh generated: 0
1990 MWh purchased: 6,954
1990 MWh sold: 6,150
1990 revenues: $340,000
established 1925

Cornhusker Public Power District
Highway 81 N.W. & 78th Ave., Box 9
Columbus, Neb. 68602-0009
(402) 564-2821
Norman L. Hoge, General Manager
customers: 7,434
1990 MWh generated: 0
1990 MWh purchased: 192,952
1990 MWh sold: retail: 176,454
wholesale: 2,620
1990 revenues: retail: $9,984,000
wholesale: $41,000
established 1943

Cozad, City of
Box 65
Cozad, Neb. 69130
(308) 784-3939
Mark E. Petsche, Light Commissioner
customers: 1,904
1990 MWh generated: 0
1990 MWh purchased: 62,801
1990 MWh sold: 53,248
1990 revenues: $2,633,000
established 1939

Crete, City of†*
241 E. 13th St., Box 86
Crete, Neb. 68333-0086
(402) 826-4311
George G. Beyer, Utilities Manager
customers: 2,400
nameplate capacity (kW): gas: 15,265; oil: 412
1990 MWh generated: 4,686
1990 MWh purchased: 96,383
1990 MWh sold: 96,649
1990 revenues: $3,702,000
established 1887

Cuming County Public Power District
500 S. Main St.
West Point, Neb. 68788
(402) 372-2463
Cecil Woodka, Manager
customers: 2,631
1990 MWh generated: 0
1990 MWh purchased: 81,472
1990 MWh sold: retail: 74,783
wholesale: 1,441
1990 revenues: retail: $4,372,000
wholesale: $50,000
established 1935

Curtis, City of†*
310 Center Ave., Box 6
Curtis, Neb. 69025
(308) 367-4122
Harold M. Farrar, Administrator
customers: 704
nameplate capacity (kW): gas: 3,400; oil: 400
1990 MWh generated: 90
1990 MWh purchased: 10,471
1990 MWh sold: 8,522
1990 revenues: $527,000
established 1913

Custer Public Power District
625 E. South E, Box 10
Broken Bow, Neb. 68822
(308) 872-2451
Lloyd H. Ramsey, General Manager
customers: 8,351
1990 MWh generated: 0
1990 MWh purchased: 136,746
1990 MWh sold: retail: 111,448
wholesale: 12,278
1990 revenues: retail: $7,198,000
wholesale: $194,000
established 1944

Dakota City, City of*
Box 482
Dakota City, Neb. 68731
(402) 987-3448
Linda K. Gagnon, City Administrator
customers: 524
1990 MWh generated: 0
1990 MWh purchased: 10,236
1990 MWh sold: 8,496
1990 revenues: $590,000
established 1910

Davenport, Village of
Second St., Box 119
Davenport, Neb. 68335
(402) 364-2296
Pete Mesloh, Utility Superintendent
customers: 252
1990 MWh generated: 0
1990 MWh purchased: 3,263
1990 MWh sold: 2,819
1990 revenues: $196,000
established 1920

David City, City of†*
402 Fifth St.
David City, Neb. 68632
(402) 367-3135
Gene Grubaugh, Superintendent
customers: 1,312
1990 MWh generated: 0
1990 MWh purchased: 26,563
1990 MWh sold: 22,640
1990 revenues: $1,280,000
established 1913

Dawson County Public Power District
Box 777, 300 S. Washington
Lexington, Neb. 68850
(308) 324-2386
Philip Darby Jr., Manager
customers: 15,373
1990 MWh generated: 0
1990 MWh purchased: 269,609
1990 MWh sold: retail: 238,631
wholesale: 5,682
1990 revenues: retail: $14,450,000
wholesale: $272,000
established 1937

De Witt, Village of
Box 208
De Witt, Neb. 68341
(402) 683-5025
Charles M. McDougall, Superintendent
customers: 317
1990 MWh generated: 0
1990 MWh purchased: 16,172
1990 MWh sold: 14,978
1990 revenues: $801,000
established 1975

Decatur, Village of
Box 156
Decatur, Neb. 68020
(402) 349-5360
Peggy A. Davis, Clerk
customers: 376
1990 MWh generated: 0
1990 MWh purchased: 4,854
1990 MWh sold: 3,600
1990 revenues: $360,000

Deshler, City of
305 Bryson, Box 189
Deshler, Neb. 68340
(402) 356-4260
Roger Dondlinger, Superintendent
customers: 498
nameplate capacity (kW): unavailable
1990 MWh generated: 15
1990 MWh purchased: 6,942
1990 MWh sold: 6,067
1990 revenues: $328,000
established 1931

Dorchester, Village of
701 Washington Ave., Box 287
Dorchester, Neb. 68343
(402) 946-3201
Edward Dvorak, Superintendent
customers: 278
1990 MWh generated: 0
1990 MWh purchased: 4,049
1990 MWh sold: 4,049
1990 revenues: $245,000

Edgar Light & Water Department*
Box 485
Edgar, Neb. 68935
(402) 224-5145
Wayne Kautz, Superintendent
customers: 418
1990 MWh generated: 0
1990 MWh purchased: 5,265
1990 MWh sold: 4,824
1990 revenues: $339,000

Elk Creek, Village of
Box 125
Elk Creek, Neb. 68348
(402) 874-2430
Philip Hall, Clerk
customers: 83
1990 MWh generated: 0
1990 MWh purchased: 1,179
1990 MWh sold: 1,121
1990 revenues: $68,000

Elkhorn Rural Public Power District
Box 310
Battle Creek, Neb. 68715
(402) 675-2185
Milton Smith, General Manager
customers: 6,436
1990 MWh generated: 0
1990 MWh purchased: 127,700
1990 MWh sold: 114,300
1990 revenues: $7,085,000
established 1939

NEBRASKA *(continued)*

Emerson, City of
Box 339
Emerson, Neb. 68733
(402) 695-2554
David Gradert, Electrical Superintendent
customers: 410
nameplate capacity (kW): gas: 1,590; oil: 148
1990 MWh generated: 881
1990 MWh purchased: 4,650
1990 MWh sold: 4,839
1990 revenues: $342,000
established 1912

Endicott, Village of
Endicott, Neb. 68350
(402) 729-3404
Clyde Kellie, Clerk
customers: 77
1990 MWh generated: 0
1990 MWh purchased: 600
1990 MWh sold: 600
1990 revenues: $36,000

Fairbury, City of†*
Box 554
Fairbury, Neb. 68352
(402) 729-3030
Michael J. Beachler, Superintendent of Utilities
customers: 3,880
nameplate capacity (kW): gas: 19,000
1990 MWh generated: 2,651
1990 MWh purchased: 59,953
1990 MWh sold: 55,740
1990 revenues: $2,699,000
established 1910

Fairmont, Village of*
Box 156
Fairmont, Neb. 68354
(402) 268-2231
J. Michael Adams, Utilities Superintendent
customers: 322
1990 MWh generated: 0
1990 MWh purchased: 5,016
1990 MWh sold: 5,016
1990 revenues: $259,000
established 1900

Falls City, City of†*
1820 Towle St.
Falls City, Neb. 68355
(402) 245-2724
Larry Merz, Public Works Director
customers: 2,792
nameplate capacity (kW): gas: 20,625; oil: 1,657
1990 MWh generated: 1,314
1990 MWh purchased: 46,519
1990 MWh sold: retail: 44,164
wholesale: 30
1990 revenues: retail: $2,078,000
wholesale: $1,000
established 1890

Filley Utilities
Box 85
Filley, Neb. 68357
(402) 662-3555
David Norten, Light Commissioner
customers: 100
1990 MWh generated: 0
1990 MWh purchased: 1,070
1990 MWh sold: 1,070
1990 revenues: $53,000

Franklin, City of*
801 15th Ave.
Franklin, Neb. 68939
(308) 425-3393
LeRoy Sweet, Superintendent of Utilities
customers: 693
nameplate capacity (kW): gas: 4,080
1990 MWh generated: 63
1990 MWh purchased: 9,290
1990 MWh sold: 7,497
1990 revenues: $529,000
established 1910

Fremont Department of Utilities†*
725 N. Park Ave., Box 1468
Fremont, Neb. 68025
(402) 727-2600
Jon McCafferty, General Manager
customers: 12,254
nameplate capacity (kW): gas: 129,000
1990 MWh generated: 270,959
1990 MWh purchased: 29,225
1990 MWh sold: retail: 268,626
wholesale: 6,280
1990 revenues: retail: $12,603,000
wholesale: $203,000
established 1894

Friend, City of*
235 Maple St.
Friend, Neb. 68359
(402) 947-2711
Randy J. Hellbusch, Utility Superintendent
customers: 640
1990 MWh generated: 0
1990 MWh purchased: 9,006
1990 MWh sold: 8,324
1990 revenues: $496,000
established 1905

Gering, City of†*
225 East D St., Box 687
Gering, Neb. 69341
(308) 436-5096
Jim Payne, Electric Utility Director
customers: 3,328
1990 MWh generated: 0
1990 MWh purchased: 69,444
1990 MWh sold: 60,196
1990 revenues: $2,796,000
established 1934

Giltner, City of
Box 218
Giltner, Neb. 68841
(402) 849-2845
Perry Hosier, Utility Superintendent
customers: 193
1990 MWh generated: 0
1990 MWh purchased: 3,288
1990 MWh sold: 2,680
1990 revenues: $256,000

Gothenburg, City of*
409 Ninth St.
Gothenburg, Neb. 69138
(308) 532-3668
Mike Glass, Electric Foreman
customers: 1,659
1990 MWh generated: 0
1990 MWh purchased: 35,554
1990 MWh sold: 32,517
1990 revenues: $1,570,000
established 1956

Grand Island, City of*
Box 1968
Grand Island, Neb. 68802-1968
(308) 381-5487
Gary R. Mader, Director of Utility Operations
customers: 20,402
nameplate capacity (kW): coal: 109,800; gas: 114,149
1990 MWh generated: 443,001
1990 MWh purchased: 87,331
1990 MWh sold: retail: 448,564
wholesale: 60,763
1990 revenues: retail: $21,803,000
wholesale: $812,000
established 1905

Grant, City of†*
346 Central Ave., Box 614
Grant, Neb. 69140
(308) 352-2100
John L. Mathes, City Superintendent
customers: 785
1990 MWh generated: 0
1990 MWh purchased: 12,889
1990 MWh sold: 12,889
1990 revenues: $778,000

Greenwood, Village of*
Box 190
Greenwood, Neb. 68366
(402) 789-2300
Edwin Koehler, Superintendent
customers: 232
1990 MWh generated: 0
1990 MWh purchased: 3,753
1990 MWh sold: 3,335
1990 revenues: $242,000
established 1932

Hampton, Village of
Box 277
Hampton, Neb. 68843
(402) 725-3186
Jim Litchfield, Utility Superintendent
customers: 249
1990 MWh generated: 0
1990 MWh purchased: 3,425
1990 MWh sold: 3,085
1990 revenues: $212,000
established 1905

Hastings, City of*
1228 N. Denver Ave., Box 289
Hastings, Neb. 68902
(402) 463-1371
Marvin H. Schultes, Manager of Utilities
customers: 11,369
nameplate capacity (kW): coal: 76,300; gas: 39,000; oil: 22,000
1990 MWh generated: 214,902
1990 MWh purchased: 81,309
1990 MWh sold: retail: 230,[illegible]
wholesale: 52,039
1990 revenues: retail: $12,148,000
wholesale: $746,000
established 1901

Hebron, City of
216 Lincoln Ave.
Hebron, Neb. 68370
(402) 768-6322
Lavon Boman, City Electrician
customers: 1,005
1990 MWh generated: 0
1990 MWh purchased: 15,993
1990 MWh sold: 13,842
1990 revenues: $873,000

Hemingford, City of*
Box 395
Hemingford, Neb. 69348
(308) 487-3465
Margaret Reynolds, Village Administrator
customers: 704
1990 MWh generated: 0
1990 MWh purchased: 7,122
1990 MWh sold: 6,601
1990 revenues: $387,000
established 1956

Hickman, City of*
115 Locust, Box 127
Hickman, Neb. 68372
(402) 792-2210
Dennis D. Heckman, Mayor
customers: 430
1990 MWh generated: 0
1990 MWh purchased: 6,291
1990 MWh sold: 6,078
1990 revenues: $329,000

Hildreth, Village of
Box 217
Hildreth, Neb. 68947
(308) 938-2471
Dale Casper, Superintendent
customers: 220
1990 MWh generated: 0
1990 MWh purchased: 2,991
1990 MWh sold: 2,989
1990 revenues: $134,000

Holbrook Municipal Light Plant
Box 69
Holbrook, Neb. 68948
(308) 493-5653
Don Vonderfecht, Superintendent
customers: unavailable
1990 MWh generated: unavailable
1990 MWh purchased: unavailable
1990 MWh sold: unavailable
1990 revenues: unavailable

Holdrege, City of*
502 East Ave., Box 436
Holdrege, Neb. 68949
(308) 995-8681
Marvin Paulsen, Utility Superintendent
customers: 3,064
nameplate capacity (kW): oil: 2,434
1990 MWh generated: 0
1990 MWh purchased: 93,663
1990 MWh sold: 88,473
1990 revenues: $3,793,000
established 1919

Howard Greeley Rural Public Power District
422 Howard Ave., Box 105
St. Paul, Neb. 68873
(308) 754-4457
Dan McIntyre, Manager
customers: 3,041
1990 MWh generated: 0
1990 MWh purchased: 62,442
1990 MWh sold: retail: 42,111
wholesale: 15,232
1990 revenues: retail: $2,688,000
wholesale: $595,000
established 1938

Hubbell, City of
Box 42
Hubbell, Neb. 68375
(402) 324-4107
Aaron Porter, Light Commissioner
customers: 61
1990 MWh generated: 0
1990 MWh purchased: 485
1990 MWh sold: 414
1990 revenues: $32,000

Imperial, City of*
S. Broadway St.
Imperial, Neb. 69033
(308) 882-5151
Rick Rigel, Superintendent
customers: 1,133
nameplate capacity (kW): oil: 600
1990 MWh generated: 0
1990 MWh purchased: 23,389
1990 MWh sold: 21,126
1990 revenues: $1,075,000
established 1915

Indianola, City of*
Main St.
Indianola, Neb. 69034
(308) 364-2413
Warren Young, Superintendent
customers: 376
1990 MWh generated: 0
1990 MWh purchased: 4,381
1990 MWh sold: 3,863
1990 revenues: $272,000

KBR Rural Public Power District
374 N. Pine St., Box 187
Ainsworth, Neb. 69210
(402) 387-1120

---

* Member, American Public Power Association

† Member, Demonstration of Energy-Efficient Developments Program

Rich Walters, Manager
customers: 3,116
1990 MWh generated: 0
1990 MWh purchased: 42,422
1990 MWh sold: 37,330
1990 revenues: $2,660,000
established 1950

Kimball, City of†*
223 S. Chestnut St.
Kimball, Neb. 69145
(308) 235-3639
City Administrator
customers: 2,008
nameplate capacity (kW): gas: 9,400
1990 MWh generated: 261
1990 MWh purchased: 20,995
1990 MWh sold: 18,357
1990 revenues: $1,098,000
established 1912

Laurel, City of*
101 W. Second St.
Laurel, Neb. 68745
(402) 256-3112
H. D. Reinoehl, City Administrator
customers: 609
nameplate capacity (kW): gas: 4,000
1990 MWh generated: 0
1990 MWh purchased: 8,096
1990 MWh sold: 7,378
1990 revenues: $382,000
established 1916

Leigh, Village of*
Box 277
Leigh, Neb. 68643
(402) 487-3303
Randy Huisman, Maintenance Engineer
customers: 287
1990 MWh generated: 0
1990 MWh purchased: 4,762
1990 MWh sold: 3,830
1990 revenues: $252,000

Lexington, City of
406 E. Sixth St., Box 70
Lexington, Neb. 68850
(308) 324-2341
Pete Bishop, Electric Superintendent
customers: 3,354
1990 MWh generated: 0
1990 MWh purchased: 72,028
1990 MWh sold: 64,987
1990 revenues: $3,314,000
established 1945

Lincoln Electric System†*
11th & O Sts., Box 80869
Lincoln, Neb. 68501
(402) 475-4211
Walter A. Canney, Administrator
customers: 91,719
nameplate capacity (kW): coal: 218,200; gas: 27,000; oil: 72,400
1990 MWh generated: 1,344,286
1990 MWh purchased:
from utilities: 1,506,800
from nonutilities: 6
1990 MWh sold: retail: 2,000,690
wholesale: 661,429
1990 revenues: retail: $95,532,000
wholesale: $10,760,000
established 1913

Lodgepole, City of*
Box 266
Lodgepole, Neb. 69149
(308) 483-5353
Lloyd Dykman, Utilities Superintendent
customers: 215
nameplate capacity (kW): oil: 300
1990 MWh generated: 0
1990 MWh purchased: 2,047
1990 MWh sold: 1,797
1990 revenues: $128,000
established 1915

Loup River Public Power District†*
2404 Fifteen St.
Columbus, Neb. 68601
(402) 564-3171
Robert E. White, General Manager
customers: 16,151
nameplate capacity (kW): unavailable
1990 MWh generated: 130,515
1990 MWh purchased: 565,963
1990 MWh sold: retail: 405,777
wholesale: 267,653
1990 revenues: retail: $18,521,000
wholesale: $9,210,000
established 1933

Loup Valley Rural Public Power District
312 S. 15th St., Box 166
Ord, Neb. 68862
(308) 728-3633
Kenneth W. Clement, Manager
customers: 3,643
1990 MWh generated: 0
1990 MWh purchased: 50,788
1990 MWh sold: 45,520
1990 revenues: $3,049,000
established 1946

Lyman, Village of†*
414 Jeffers Ave.
Lyman, Neb. 69352
(308) 787-1444
Lea Anne Easton, Village Clerk
customers: 266
1990 MWh generated: 0
1990 MWh purchased: 4,484
1990 MWh sold: 4,406
1990 revenues: $297,000
established 1922

Lyons, City of*
335 Main St.
Lyons, Neb. 68038
(402) 687-2003
Randall Rogers, City Clerk-Treasurer
customers: 642
1990 MWh generated: 0
1990 MWh purchased: 8,867
1990 MWh sold: 7,750
1990 revenues: $443,000
established 1915

Madison, City of
210 W. Third St., Box 527
Madison, Neb. 68748
(402) 454-3412
Robert W. Gillis, Administrator
customers: 929
nameplate capacity (kW): unavailable
1990 MWh generated: 77
1990 MWh purchased: 50,178
1990 MWh sold: 47,634
1990 revenues: $2,161,000

McCook Public Power District
North US 83 and Q St., Box 1147
McCook, Neb. 69001
(308) 345-2500
James P. Phinney, General Manager
customers: 4,518
1990 MWh generated: 0
1990 MWh purchased: 137,045
1990 MWh sold: retail: 110,579
wholesale: 11,688
1990 revenues: retail: $7,313,000
wholesale: $178,000
established 1935

Minden, City of
325 N. Colorado St.
Minden, Neb. 68959
(308) 832-1820
Thomas Kenney, City Administrator
customers: 1,474
1990 MWh generated: 0
1990 MWh purchased: 24,831
1990 MWh sold: 20,799
1990 revenues: $1,384,000

Mitchell, City of†*
1444 12th Street
Mitchell, Neb. 69357
(308) 623-2133
Ty Abernethy, Utility Superintendent
customers: 1,056
1990 MWh generated: 0
1990 MWh purchased: 18,907
1990 MWh sold: 16,806
1990 revenues: $823,000
established 1934

Morrill, Village of†*
114 S. Centre, Box 305
Morrill, Neb. 69358
(308) 247-2312
Dennis Duffield, Supervisor/Foreman
customers: 862
1990 MWh generated: 0
1990 MWh purchased: 13,340
1990 MWh sold: 12,587
1990 revenues: $623,000
established 1900

Mullen, Village of†*
Box 187
Mullen, Neb. 69152
(308) 546-2625
Donald Kehr, Utilities Superintendent
customers: 400
nameplate capacity (kW): oil: 1,125
1990 MWh generated: 31
1990 MWh purchased: 5,537
1990 MWh sold: 4,212
1990 revenues: $236,000
established 1957

Municipal Energy Agency of Nebraska†
521 S. 14th St., Suite 500, Box 95124
Lincoln, Neb. 68509
(402) 474-4759
H. Steve Wacker, Executive Director
customers: wholesale only
nameplate capacity (kW): unavailable
1990 MWh generated: 191,328
1990 MWh purchased: 677,445
1990 MWh sold: wholesale: 858,275
1990 revenues: wholesale: $24,731,000
established 1981
(see expanded joint action agency section, page 140)

Nebraska City, City of†*
100 Central Ave., Box 670
Nebraska City, Neb. 68410
(402) 873-3353
William T. Brockley, General Manager
customers: 5,496
nameplate capacity (kW): gas: 30,115
1990 MWh generated: 11,609
1990 MWh purchased: 98,238
1990 MWh sold: retail: 94,341
wholesale: 3,653
1990 revenues: retail: $4,110,000
wholesale: $125,000
established 1944

Nebraska Public Power District*
1414 15th St., Box 499
Columbus, Neb. 68601
(402) 564-8561
Ronald W. Watkins, President & CEO
customers: 105,855
nameplate capacity (kW): nuclear: 835,550; coal: 1,538,268; hydro: 77,939; gas: 32,069; oil: 160,641
1990 MWh generated: 11,736,468
1990 MWh purchased: 1,761,817
1990 MWh sold: retail: 2,444,992
wholesale: 10,542,148
1990 revenues: retail: $137,859,000
wholesale: $321,239,000
established 1939

Neligh Municipal Power*
202 M St., Box 87
Neligh, Neb. 68756
(402) 887-5042
Eugene Zillig, Superintendent
customers: 1,115
1990 MWh generated: 0
1990 MWh purchased: 15,110
1990 MWh sold: 13,425
1990 revenues: $966,000
established 1969

Nelson, City of
60 E. Fourth St.
Nelson, Neb. 68961
(402) 225-4401
Virgil Schlief, Light Superintendent
customers: 395
1990 MWh generated: 0
1990 MWh purchased: 4,725
1990 MWh sold: 3,972
1990 revenues: $270,000
established 1914

Norris Public Power District
606 Irving St., Box 399
Beatrice, Neb. 68310
(402) 223-4038
Glen R. Schmieding, General Manager
customers: 12,443
1990 MWh generated: 0
1990 MWh purchased: 399,718
1990 MWh sold: retail: 362,555
wholesale: 13,323
1990 revenues: retail: $19,067,000
wholesale: $499,000
established 1933

North Central Public Power District
Box 7
Creighton, Neb. 68729
(402) 358-5112
Brian Newton, Manager
customers: 3,698
1990 MWh generated: 0
1990 MWh purchased: 64,322
1990 MWh sold: 57,548
1990 revenues: $3,643,000
established 1945

North Platte, City of*
Third and Vine Sts.
North Platte, Neb. 69101
(308) 532-5320
Larry E. Linstrom, Manager
customers: 12,909
1990 MWh generated: 0
1990 MWh purchased: 207,000
1990 MWh sold: 195,000
1990 revenues: $9,579,000
established 1940

Northeast Nebraska Rural Public Power District
511 Main St., Box 39
Emerson, Neb. 68733
(402) 695-2642
Cletus J. Temple, Manager
customers: 2,712
1990 MWh generated: 0
1990 MWh purchased: 66,800
1990 MWh sold: retail: 61,000
wholesale: 4,400
1990 revenues: retail: $3,422,000
wholesale: $102,000
established 1939

Northwest Rural Public Power District
S. Highway 87, Box 249
Hay Springs, Neb. 69347
(308) 638-4445
Rolland Skinner, Manager
customers: 2,561
1990 MWh generated: 0
1990 MWh purchased: 50,811
1990 MWh sold: 43,993
1990 revenues: $3,665,000
established 1947

NEBRASKA *(continued)*

Omaha Public Power District†*
444 S. 16th St. Mall
Omaha, Neb. 68102-2247
(402) 636-2000
Fred M. Petersen, President & CEO
customers: 249,055
nameplate capacity (kW): nuclear: 502,000; coal: 1,260,570; gas: 110,800; oil: 130,000
1990 MWh generated: 7,721,410
1990 MWh purchased: 377,754
1990 MWh sold: retail: 6,485,466
wholesale: 137,167
1990 revenues: retail: $377,314,000
wholesale: $3,823,000
established 1946

Ord, City of*
Box 96
Ord, Neb. 68862
(308) 728-5937
Bill Dodson, Utility Director
customers: 1,474
1990 MWh generated: 0
1990 MWh purchased: 23,719
1990 MWh sold: 20,798
1990 revenues: $1,098,000
established 1916

Oxford, Village of†*
Box 385
Oxford, Neb. 68967
(308) 824-3511
Ron Ludeke, Utilities Superintendent
customers: 531
nameplate capacity (kW): oil: 4,165
1990 MWh generated: 90
1990 MWh purchased: 8,243
1990 MWh sold: 7,373
1990 revenues: $464,000
established 1913

Panama, Village of
Box 117
Panama, Neb. 68419
(402) 788-2733
Kathy Harrop, Clerk/Treasurer
customers: 101
1990 MWh generated: 0
1990 MWh purchased: 1,334
1990 MWh sold: 1,334
1990 revenues: $67,000
established 1888

Pender, City of†*
Box S
Pender, Neb. 68047
(402) 385-3121
Robert Fendrick, Utilities Superintendent
customers: 825
nameplate capacity (kW): gas: 5,330
1990 MWh generated: 12
1990 MWh purchased: 11,141
1990 MWh sold: 10,039
1990 revenues: $501,000
established 1920

Pierce, City of*
114 S. Brown St.
Pierce, Neb. 68767
(402) 329-4535
David Hoogestraat, Utilities Manager
customers: 985
1990 MWh generated: 0
1990 MWh purchased: 15,787
1990 MWh sold: 14,421
1990 revenues: $819,000
established 1941

Plainview Municipal Utilities*
Box 757
Plainview, Neb. 68769
(402) 582-4928
Mark Anderson, City Manager
customers: 800
nameplate capacity (kW): gas: 3,150
1990 MWh generated: 0
1990 MWh purchased: 10,476
1990 MWh sold: 7,948
1990 revenues: $586,000
established 1910

Polk, Village of
Box 6
Polk, Neb. 68654
(402) 765-6471
Matthew L. Redman, Superintendent
customers: 247
1990 MWh generated: 0
1990 MWh purchased: 2,969
1990 MWh sold: 2,530
1990 revenues: $203,000
established 1906

Polk County Rural Public Power District
120 W. Fourth St.
Stromsburg, Neb. 68666
(402) 764-4381
Merlin Steele, Manager
customers: 2,459
1990 MWh generated: 0
1990 MWh purchased: 53,341
1990 MWh sold: retail: 39,042
wholesale: 9,959
1990 revenues: retail: $2,267,000
wholesale: $401,000
established 1936

Prague, Village of
Prague, Neb. 68050
(402) 663-5235
Ray Paseka, Utility Superintendent
customers: 165
1990 MWh generated: 0
1990 MWh purchased: 2,500
1990 MWh sold: 2,206
1990 revenues: $133,000
established 1887

Randolph, City of
Box 220
Randolph, Neb. 68771
(402) 337-0553
Les Greiner, Foreman of Utility
customers: 585
1990 MWh generated: 0
1990 MWh purchased: 6,293
1990 MWh sold: 6,249
1990 revenues: $411,000
established 1916

Red Cloud, City of†*
540 N. Webster St.
Red Cloud, Neb. 68970
(402) 746-2214
Albert A. Wood, Superintendent
customers: 768
nameplate capacity (kW): oil: 6,544
1990 MWh generated: 179
1990 MWh purchased: 8,960
1990 MWh sold: 8,012
1990 revenues: $515,000
established 1912

Reynolds, Village of
Main St., Box 98
Reynolds, Neb. 68429-0098
(402) 324-3174
Sharon Ginn, Clerk
customers: 70
1990 MWh generated: 0
1990 MWh purchased: 560
1990 MWh sold: 470
1990 revenues: $44,000

Roosevelt Public Power District
1633 13th St., Box 97
Mitchell, Neb. 69357
(308) 623-2124
Jack Mitchell, Manager
customers: 2,313
1990 MWh generated: 0
1990 MWh purchased: 43,345
1990 MWh sold: 38,327
1990 revenues: $2,690,000
established 1935

St. Paul, City of*
522 Howard Ave.
St Paul, Neb. 68873
(308) 754-4483
Charles Schmid, Superintendent
customers: 1,059
1990 MWh generated: 0
1990 MWh purchased: 15,229
1990 MWh sold: 13,967
1990 revenues: $910,000

Sargent, City of*
Box 40
Sargent, Neb. 68874
(308) 527-4200
Larry Kelly, City Manager
customers: 444
nameplate capacity (kW): oil: 2,495
1990 MWh generated: 17
1990 MWh purchased: 6,737
1990 MWh sold: 5,725
1990 revenues: $285,000
established 1916

Schuyler, City of*
124 E. 11th St.
Schuyler, Neb. 68661
(402) 352-5445
Fred Ayers, Superintendent
customers: 2,237
1990 MWh generated: 0
1990 MWh purchased: 84,655
1990 MWh sold: 79,791
1990 revenues: $3,038,000
established 1892

Scribner, City of*
Box D
Scribner, Neb. 68057
(402) 664-3231
Gordon Evert, Superintendent
customers: unavailable
1990 MWh generated: unavailable
1990 MWh purchased: unavailable
1990 MWh sold: unavailable
1990 revenues: unavailable
established 1988

Seward, City of*
537 Main St.
Seward, Neb. 68434
(402) 643-2927
Lawrence Fiala, Electric Superintendent
customers: 2,581
1990 MWh generated: 0
1990 MWh purchased: 56,368
1990 MWh sold: 52,914
1990 revenues: $2,511,000
established 1921

Seward County Rural Public Power District
S. Highway 15
Seward, Neb. 68434
(402) 643-2951
Joel A. Navis, General Manager
customers: 2,594
1990 MWh generated: 0
1990 MWh purchased: 51,813
1990 MWh sold: 46,441
1990 revenues: $3,242,000
established 1938

Shickley, Village of†*
Box 25
Shickley, Neb. 68436
(402) 627-2055
Richard Walter, Village Board Member
customers: 233
1990 MWh generated: 0
1990 MWh purchased: 3,620
1990 MWh sold: 3,120
1990 revenues: $191,000
established 1923

Sidney, City of†*
1115 13th Ave.
Sidney, Neb. 69162
(308) 254-5300
Robert Willis, Plant Superintendent
customers: 3,037
nameplate capacity (kW): gas: 7,500; oil: 800
1990 MWh generated: 526
1990 MWh purchased: 40,165
1990 MWh sold: 37,597
1990 revenues: $1,901,000
established 1942

Snyder, City of*
125 Ash, Box 247
Snyder, Neb. 68664-0247
(402) 568-2306
Barb Renter, Village Clerk
customers: 171
1990 MWh generated: 0
1990 MWh purchased: 5,682
1990 MWh sold: 4,102
1990 revenues: $286,000
established 1890

South Central Public Power District
275 S. Main St.
Nelson, Neb. 68961
(402) 225-2351
Max Van Skiver, Manager
customers: 4,267
1990 MWh generated: 0
1990 MWh purchased: 84,951
1990 MWh sold: 77,207
1990 revenues: $4,513,000
established 1945

South Sioux City, City of*
1615 First Ave.
South Sioux City, Neb. 68776
(402) 494-5827
David A. Lane, Public Works Director
customers: 4,277
1990 MWh generated: 0
1990 MWh purchased: 94,813
1990 MWh sold: 90,750
1990 revenues: $5,687,000
established 1896

Southern Nebraska Rural Public Power District*
Box 1687
Grand Island, Neb. 68802
(308) 384-2350
Charles J. Hoke, General Manager
customers: 16,907
1990 MWh generated: 0
1990 MWh purchased: 398,747
1990 MWh sold: 355,778
1990 revenues: $22,184,000
established 1937

Southwest Public Power District
221 N. Main St., Box J
Palisade, Neb. 69040
(308) 285-3295
Don Suda, General Manager
customers: 5,086
nameplate capacity (kW): oil: 300
1990 MWh generated: 0
1990 MWh purchased: 154,532
1990 MWh sold: retail: 109,584
wholesale: 30,963
1990 revenues: retail: $7,458,000
wholesale: $733,000
established 1954

---

* Member, American Public Power Association
† Member, Demonstration of Energy-Efficient Developments Program

Spalding, Village of*
Box 268
Spalding, Neb. 68665
(308) 497-2416
Gordon Quincy, Superintendent
customers: 582
nameplate capacity (kW): hydro: 140; oil: 2,053
1990 MWh generated: 462
1990 MWh purchased: 6,569
1990 MWh sold: 6,003
1990 revenues: $204,000
established 1954

Spencer, Village of*
Box 15
Spencer, Neb. 68777
(402) 589-1130
Lyle Karnes, Superintendent
customers: 339
1990 MWh generated: 0
1990 MWh purchased: 5,375
1990 MWh sold: 4,769
1990 revenues: $274,000

Stanton County Public Power District
807 Douglas St., Box 319
Stanton, Neb. 68779
(402) 439-2228
William Johnson, Manager
customers: 2,884
1990 MWh generated: 0
1990 MWh purchased: 42,820
1990 MWh sold: 38,439
1990 revenues: $2,544,000
established 1936

Stratton, City of
Box 116
Stratton, Neb. 69045
(308) 276-2184
A. R. Terrell, Superintendent
customers: 283
1990 MWh generated: 0
1990 MWh purchased: 3,841
1990 MWh sold: 3,541
1990 revenues: $220,000

Stromsburg, City of†*
122 E. Third St.
Stromsburg, Neb. 68666
(402) 764-2561
Merlin Simpson, Superintendent
customers: 647
1990 MWh generated: 0
1990 MWh purchased: 9,959
1990 MWh sold: 9,043
1990 revenues: $572,000
established 1936

Stuart, City of†*
109 W. First St.
Stuart, Neb. 68780
(402) 924-3647
M. A. Jauernig, Utilities Superintendent
customers: 380
nameplate capacity (kW): oil: 1,375
1990 MWh generated: 0
1990 MWh purchased: 5,370
1990 MWh sold: 4,481
1990 revenues: $256,000
established 1922

Superior, City of*
135 W. Fourth St., Box 160
Superior, Neb. 68978-0160
(402) 879-4711
Richard J. Elliott, Director of Public Works
customers: 1,485
1990 MWh generated: 0
1990 MWh purchased: 30,129
1990 MWh sold: 29,024
1990 revenues: $1,756,000
established 1941

Sutton Light & Power*
Box 437
Sutton, Neb. 68979
(402) 773-5501
Wayne Stroot, Electric Distribution Supt.
customers: 817
1990 MWh generated: 0
1990 MWh purchased: 11,582
1990 MWh sold: 10,037
1990 revenues: $700,000
established 1915

Syracuse, City of*
578 Mohawk St.
Syracuse, Neb. 68446
(402) 269-2173
Donald Block, Utilities Superintendent
customers: 886
1990 MWh generated: 0
1990 MWh purchased: 14,062
1990 MWh sold: 12,291
1990 revenues: $805,000
established 1930

Talmage Electric Department
Box 198
Talmage, Neb. 68448
(402) 264-3825
Melvin Howe, Superintendent
customers: 196
1990 MWh generated: 0
1990 MWh purchased: 2,086
1990 MWh sold: 2,000
1990 revenues: $93,000

Tecumseh, City of*
112 S. Fourth St.
Tecumseh, Neb. 68450
(402) 335-3025
Terry Kage, Utilities Superintendent
customers: 994
nameplate capacity (kW): oil: 5,308
1990 MWh generated: -225
1990 MWh purchased: 20,815
1990 MWh sold: 19,585
1990 revenues: $1,050,000
established 1890

Thurston, Village of
Box 215
Thurston, Neb. 68062
(402) 385-2603
Faye B. Peck, Clerk
customers: unavailable
1990 MWh generated: unavailable
1990 MWh purchased: unavailable
1990 MWh sold: unavailable
1990 revenues: unavailable

Trenton, Village of
Box 68
Trenton, Neb. 69044
(308) 285-3295
Barney Lee Whatley, Superintendent
customers: 435
nameplate capacity (kW): oil: 850
1990 MWh generated: 0
1990 MWh purchased: 5,121
1990 MWh sold: 4,854
1990 revenues: $307,000
established 1905

Twin Valleys Public Power District
W. Highway Six and 34, Box 160
Cambridge, Neb. 69022
(308) 697-3315
Paul Liess, General Manager
customers: 4,446
1990 MWh generated: 0
1990 MWh purchased: 59,288
1990 MWh sold: retail: 48,610
wholesale: 3,496
1990 revenues: retail: $3,614,000
wholesale: $180,000
established 1944

University of Nebraska†*
1700 Y St.
Lincoln, Neb. 68588
(402) 472-3131
Gary Thalken, Manager of Utilities
customers: unavailable
1990 MWh generated: unavailable
1990 MWh purchased: unavailable
1990 MWh sold: unavailable
1990 revenues: unavailable
established 1934

Valentine, City of*
323 N. Main St., Box 177
Valentine, Neb. 69201-0177
(402) 376-2323
Norma Jean New, Administrative Assistant
customers: 1,690
1990 MWh generated: 0
1990 MWh purchased: 34,853
1990 MWh sold: 31,748
1990 revenues: $1,719,000

Wahoo, City of†*
605 N. Broadway
Wahoo, Neb. 68066
(402) 443-3222
Brian Skeahan, Manager
customers: 2,212
nameplate capacity (kW): gas: 13,715; oil: 500
1990 MWh generated: 1,036
1990 MWh purchased: 38,125
1990 MWh sold: retail: 34,891
wholesale: 1,818
1990 revenues: retail: $1,420,000
wholesale: $66,000
established 1908

Wakefield, City of*
405 Main St.
Wakefield, Neb. 68784
(402) 287-2547
Larry Lueth, Superintendent
customers: 611
nameplate capacity (kW): unavailable
1990 MWh generated: 80
1990 MWh purchased: 20,960
1990 MWh sold: 20,120
1990 revenues: $841,000
established 1917

Walthill, Village of*
224 Main St., Box 246
Walthill, Neb. 68067
(402) 846-5921
Henry L. Johnson, Superintendent
customers: 334
1990 MWh generated: 0
1990 MWh purchased: 4,796
1990 MWh sold: 3,818
1990 revenues: $303,000
established 1965

Wauneta, Village of*
45 E. Wichita
Wauneta, Neb. 69045
(308) 394-5390
Stan George, Utilities Superintendent
customers: 462
1990 MWh generated: 0
1990 MWh purchased: 6,854
1990 MWh sold: 6,018
1990 revenues: $320,000
established 1948

Wayne Municipal Utilities*
208 S. Main St.
Wayne, Neb. 68787
(402) 375-2866
Gene Hansen, Superintendent, Electric Generation
customers: 2,122
nameplate capacity (kW): oil: 15,375
1990 MWh generated: 338
1990 MWh purchased: 42,127
1990 MWh sold: 37,712
1990 revenues: $1,905,000
established 1897

Wayne County Public Power District
303 Logan St.
Wayne, Neb. 68787
(402) 375-1360
E. A. Schroeder, Manager
customers: 2,639
1990 MWh generated: 0
1990 MWh purchased: 56,755
1990 MWh sold: 50,215
1990 revenues: $2,688,000
established 1939

West Point, City of†*
444 S. Main St.
West Point, Neb. 68788
(402) 372-2468
Howard C. Parrott, City Administrator
customers: 1,765
nameplate capacity (kW): gas: 8,565
1990 MWh generated: 1,236
1990 MWh purchased: 30,359
1990 MWh sold: 30,848
1990 revenues: $1,586,000
established 1889

Weston, Village of
Box 149
Weston, Neb. 68070
(402) 642-5496
Christy Furrow, Clerk-Treasurer
customers: unavailable
1990 MWh generated: unavailable
1990 MWh purchased: unavailable
1990 MWh sold: unavailable
1990 revenues: unavailable
established 1922

Wheat Belt Public Power District
2104 Illinois St.
Sidney, Neb. 69162
(308) 254-5871
Gene M. Lienemann, General Manager
customers: 4,315
1990 MWh generated: 0
1990 MWh purchased: 116,833
1990 MWh sold: 105,886
1990 revenues: $7,949,000
established 1947

Wilber, City of*
101 W. Third St., Box 486
Wilber, Neb. 68465
(402) 821-3233
Michael Pospisil, City Superintendent
customers: 829
nameplate capacity (kW): oil: 2,100
1990 MWh generated: 53
1990 MWh purchased: 13,229
1990 MWh sold: 12,090
1990 revenues: $442,000
established 1900

Wilcox, Village of*
Box 88
Wilcox, Neb. 68982
(308) 478-5510
Phyllis Stabenow, Village Clerk/Treasurer
customers: 202
1990 MWh generated: 0
1990 MWh purchased: 2,593
1990 MWh sold: 2,455
1990 revenues: $148,000
established 1916

Winside, Village of
Box 206
Winside, Neb. 68790
(402) 286-4422
Carol M. Brugger, Village Clerk
customers: 262
1990 MWh generated: 0
1990 MWh purchased: 2,985
1990 MWh sold: 2,470
1990 revenues: $121,000
established 1915

NEBRASKA *(continued)*

Wisner, City of*
1115 Ave. E, Box 387
Wisner, Neb. 68791
(402) 529-6616
Roland Johnson, Utilities Superintendent
customers: 745
nameplate capacity (kW): oil: 1,905
1990 MWh generated: 36
1990 MWh purchased: 14,594
1990 MWh sold: 11,932
1990 revenues: $471,000
established 1905

Wood River, City of*
Box 8
Wood River, Neb. 68883
(308) 583-2757
James A. Smith, Superintendent
customers: 521
1990 MWh generated: 0
1990 MWh purchased: 9,336
1990 MWh sold: 8,272
1990 revenues: $551,000

Wymore, City of
115 W. E St.
Wymore, Neb. 68466
(402) 645-3377
Allen Griess, Superintendent
customers: 905
1990 MWh generated: 0
1990 MWh purchased: 10,936
1990 MWh sold: 9,753
1990 revenues: $592,000

York County Rural Public Power District
2122 S. Lincoln Ave., Box 219
York, Neb. 68467
(402) 362-3355
Hilary Neesen, General Manager
customers: 4,439
1990 MWh generated: 0
1990 MWh purchased: 113,380
1990 MWh sold: 102,568
1990 revenues: $6,136,000
established 1938

Nevada

Alamo Power District No. 3
233 N. Main, Box 189
Alamo, Nev. 89001
(702) 725-3335
Douglas J. Miller, Manager
customers: 498
1990 MWh generated: 0
1990 MWh purchased: 12,126
1990 MWh sold: 10,142
1990 revenues: $394,000
established 1942

Boulder City, City of*
401 California Ave., Box 61350
Boulder City, Nev. 89006
(702) 293-9200
Ned J. Shamo, Superintendent, Electrical Distribu
customers: 5,871
1990 MWh generated: 0
1990 MWh purchased: 131,867
1990 MWh sold: 114,911
1990 revenues: $4,719,000
established 1960

Caliente, City of
100 Depot Ave.
Caliente, Nev. 89008
(702) 726-3132
George T. Rowe, Mayor
customers: 492
1990 MWh generated: 0
1990 MWh purchased: 13,349
1990 MWh sold: 10,906
1990 revenues: $518,000
established 1944

Colorado River Commission of Nevada
1515 E. Tropicana, Suite 400
Las Vegas, Nev. 89119
(702) 486-7060
Jack L. Stonehocker, Director
customers: 6
1990 MWh generated: 0
1990 MWh purchased: 1,806,447
1990 MWh sold: retail: 830,102
wholesale: 974,539
1990 revenues: retail: $13,306,000
wholesale: $10,284,000
established 1936

Fallon, City of*
55 W. Williams Ave.
Fallon, Nev. 89406
(702) 423-5107
Michael Rody, City Manager
customers: 3,209
1990 MWh generated: 0
1990 MWh purchased: 50,982
1990 MWh sold: 44,864
1990 revenues: $4,052,000
established 1911

Lincoln County Power District No. 1
SR 89063, Box 101
Pioche, Nev. 89043
(702) 962-5122
William F. Lynch, Manager
customers: 141
1990 MWh generated: 0
1990 MWh purchased: 66,551
1990 MWh sold: retail: 14,026
wholesale: 42,219
1990 revenues: retail: $442,000
wholesale: $960,000
established 1935

Overton Power District No. 5
Box 395
Overton, Nev. 89040
(702) 397-2512
Alma W. Whipple, General Manager
customers: 3,144
1990 MWh generated: 0
1990 MWh purchased: 137,769
1990 MWh sold: 117,775
1990 revenues: $4,669,000
established 1939

Pioche, City of
Box 35
Pioche, Nev. 89043
(702) 962-5840
Patrick Kelly, Manager
customers: 309
1990 MWh generated: 0
1990 MWh purchased: 6,445
1990 MWh sold: 6,040
1990 revenues: $242,000

New Hampshire

Ashland Electric Department
2 Collins St., Box 517
Ashland, N.H. 03217
(603) 968-3083
Thomas E. Marsh, Superintendent
customers: 1,051
nameplate capacity (kW): unavailable
1990 MWh generated: 252
1990 MWh purchased: 22,876
1990 MWh sold: 22,373
1990 revenues: $1,605,000
established 1917

Littleton, Town of
30 Lafayette Ave.
Littleton, N.H. 03561
(603) 444-2915
James R. Thyng, Superintendent
customers: 3,068
1990 MWh generated: 0
1990 MWh purchased:
from utilities: 53,944
from nonutilities: 2,071
1990 MWh sold: 52,488
1990 revenues: $3,702,000
established 1903

New Hampton Village Precinct
New Hampton, N.H. 03256
(603) 351-3517
Ralph Ness, Manager, Electric Department
customers: 137
1990 MWh generated: 0
1990 MWh purchased: 2,675
1990 MWh sold: 2,551
1990 revenues: $177,000
established 1914

Wolfeboro, Town of
S. Main St., Box 777
Wolfeboro, N.H. 03894
(603) 569-3900
James McSweeney, Town Manager
customers: 4,639
nameplate capacity (kW): unavailable
1990 MWh generated: 113
1990 MWh purchased: 52,605
1990 MWh sold: 48,431
1990 revenues: $3,552,000
established 1897

Woodsville, City of
RR2, Box 66A
Woodsville, N.H. 03785
(603) 747-2442
Robert Fagnant, Superintendent
customers: 1,084
1990 MWh generated: 0
1990 MWh purchased: 18,346
1990 MWh sold: 16,645
1990 revenues: $1,062,000
established 1922

New Jersey

Butler Municipal Power & Light Co.*
1 Ace Road
Butler, N.J. 07405
(201) 838-7200
Gary A. Webb, Borough Administrator
customers: 10,051
1990 MWh generated: 0
1990 MWh purchased: 111,585
1990 MWh sold: 102,054
1990 revenues: $11,199,000
established 1915

LaVallette Electric Department*
Washington Avenue
LaVallette, N.J. 08735
(201) 793-7477
Joan Larson, Electric Clerk
customers: 2,718
1990 MWh generated: 0
1990 MWh purchased: 14,368
1990 MWh sold: 13,057
1990 revenues: $1,059,000
established 1927

Madison, Borough of
Hartley Dodge Memorial Bldg., Kings Road
Madison, N.J. 07940
(201) 593-3043
James Allison, Borough Administrator
customers: 6,123
1990 MWh generated: 0
1990 MWh purchased: 119,262
1990 MWh sold: 113,263
1990 revenues: $11,907,000
established 1889

Milltown, Borough of
39 Washington Ave.
Milltown, N.J. 08850
(201) 828-2100
Jack Shanabrook, Supervisor
customers: 2,815
1990 MWh generated: 0
1990 MWh purchased: 39,675
1990 MWh sold: 31,058
1990 revenues: $3,537,000

Park Ridge Electric Department†*
53 Park Ave.
Park Ridge, N.J. 07656
(201) 391-2129
Robert F. Kenney, Director of Operations
customers: 3,416
1990 MWh generated: 0
1990 MWh purchased: 62,240
1990 MWh sold: 58,970
1990 revenues: $5,127,000
established 1904

Pemberton, Borough of
114 Hanover St., Box 261
Pemberton, N.J. 08068
(609) 894-8222
Edward Kaelin, Superintendent
customers: 515
1990 MWh generated: 0
1990 MWh purchased: 6,120
1990 MWh sold: 6,120
1990 revenues: $486,000
established 1921

Seaside Heights, Borough of
901 Blvd. Ipri
Seaside Heights, N.J. 08751
(201) 793-0359
Leonard Ipri, Superintendent
customers: 2,248
1990 MWh generated: 0
1990 MWh purchased: 31,320
1990 MWh sold: 28,017
1990 revenues: $3,273,000
established 1921

South River, Borough of*
33 Gordon St.
South River, N.J. 08882
(201) 257-9051
George Freeman, Electric Supervisor
customers: 5,686
1990 MWh generated: 0
1990 MWh purchased: 47,059
1990 MWh sold: 39,575
1990 revenues: $3,913,000
established 1908

Vineland, City of†*
Seventh & Wood St., City Hall
Vineland, N.J. 08360
(609) 794-4166
Harry A. Maloney III, Director of Electric Utility
customers: 17,045
nameplate capacity (kW): coal: 25,000; oil: 72,500
1990 MWh generated: 68,582
1990 MWh purchased: 354,243
1990 MWh sold: 399,616
1990 revenues: $33,208,000
established 1900

New Mexico

Aztec, City of*
201 W. Chaco St.
Aztec, N.M. 87410
(505) 334-9456
Shirley Willis, City Manager
customers: 2,682

---

* Member, American Public Power Association

† Member, Demonstration of Energy-Efficient Developments Program

1990 MWh generated: 0
1990 MWh purchased: 25,057
1990 MWh sold: 22,392
1990 revenues: $1,750,000
established 1956

Farmington, City of†*
800 Municipal Drive
Farmington, N.M. 87401
(505) 559-1165
William T. Statton, Electric Utility Director
customers: 28,632
nameplate capacity (kW): coal: 45,280; hydro: 30,200; gas: 31,500
1990 MWh generated: 414,027
1990 MWh purchased: 109,314
1990 MWh sold: retail: 453,875
wholesale: 24,051
1990 revenues: retail: $35,205,000
wholesale: $861,000
established 1964

Gallup, City of*
Box 1270
Gallup, N.M. 87301
(505) 863-1288
Robert Monday, Utility Director
customers: 8,775
1990 MWh generated: 0
1990 MWh purchased: 204,671
1990 MWh sold: 195,431
1990 revenues: $11,472,000
established 1941

Los Alamos, County of*
901 Trinity Drive, Box 1057
Los Alamos, N.M. 87544
(505) 662-8130
Chris Ortega, Utilities Manager
customers: 7,843
nameplate capacity (kW): coal: 38,450
1990 MWh generated: 302,008
1990 MWh purchased: 192,790
1990 MWh sold: retail: 461,551
wholesale: 18,064
1990 revenues: retail: $26,674,000
wholesale: $443,000
established 1967

Raton Public Service Co.†*
224 Savage Ave.
Raton, N.M. 87740
(505) 445-9861
Nardi Gabriele, General Manager
customers: 3,649
nameplate capacity (kW): coal: 10,500
1990 MWh generated: 31,224
1990 MWh purchased: 19,426
1990 MWh sold: 44,993
1990 revenues: $3,013,000
established 1919

Springer, Town of
612 Colbert Ave., Box 488
Springer, N.M. 87747
(505) 483-2682
Lloyd Miles, Administrator
customers: 667
1990 MWh generated: 0
1990 MWh purchased: 4,980
1990 MWh sold: 4,167
1990 revenues: $512,000
established 1950

Truth or Consequences, City of*
505 Sims St.
Truth or Consequences, N.M. 87901
(505) 894-6674
Gene E. Hoskinson, Electric Utility Director
customers: 3,926
1990 MWh generated: 0
1990 MWh purchased: 38,604
1990 MWh sold: 35,255
1990 revenues: $2,961,000
established 1934

New York

Akron, Village of†*
21 Main St., Box 180
Akron, N.Y. 14001-0180
(716) 542-9636
Raymond J. Carlo Jr., Clerk/Treasurer
customers: 1,385
1990 MWh generated: 0
1990 MWh purchased: 45,061
1990 MWh sold: 42,857
1990 revenues: $1,157,000
established 1903

Andover, Village of†
4 Main St.
Andover, N.Y. 14806
(607) 478-8455
Maynard Towner, Superintendent
customers: 548
1990 MWh generated: 0
1990 MWh purchased: 6,688
1990 MWh sold: 6,121
1990 revenues: $226,000
established 1913

Angelica, Village of†*
White St.
Angelica, N.Y. 14709
(716) 466-7431
Richard Sortore, Superintendent
customers: 636
1990 MWh generated: 0
1990 MWh purchased: 7,610
1990 MWh sold: 6,857
1990 revenues: $305,000
established 1930

Arcade, Village of†*
17 Church St.
Arcade, N.Y. 14009
(716) 492-1111
Larry A. Kilburn, Superintendent, Public Works
customers: 3,221
1990 MWh generated: 0
1990 MWh purchased: 116,025
1990 MWh sold: retail: 112,392
wholesale: 81
1990 revenues: retail: $2,730,000
wholesale: $2,000
established 1909

Bath Electric, Gas & Water Systems†*
Drawer 310
Bath, N.Y. 14810
(607) 776-3072
W. Neal Wrinkle, Director
customers: 4,081
1990 MWh generated: 0
1990 MWh purchased: 73,425
1990 MWh sold: 68,089
1990 revenues: $2,202,000
established 1915

Bergen, Village of†*
11 Buffalo St.
Bergen, N.Y. 14416
(716) 494-1513
Roy Hill, Superintendent
customers: 616
1990 MWh generated: 0
1990 MWh purchased: 23,282
1990 MWh sold: 21,952
1990 revenues: $1,082,000
established 1909

Boonville Electric & Water Departments†*
RR 3, Box 2
Boonville, N.Y. 13309
(315) 942-4461
John W. Gilbert, Superintendent
customers: 2,670
1990 MWh generated: 0
1990 MWh purchased: 57,294
1990 MWh sold: 52,392
1990 revenues: $1,474,000
established 1903

Brocton, City of†*
34 W. Main St.
Brocton, N.Y. 14716
(716) 792-4160
Rick Manzella, Superintendent
customers: 799
1990 MWh generated: 0
1990 MWh purchased: 12,186
1990 MWh sold: 11,221
1990 revenues: $309,000
established 1904

Castile, Village of†*
120 N. Main St.
Castile, N.Y. 14427
(716) 493-2340
Lynn D. Washburn, Superintendent
customers: 621
1990 MWh generated: 0
1990 MWh purchased: 7,258
1990 MWh sold: 6,661
1990 revenues: $239,000
established 1903

Churchville, Village of†*
22 S. Main St., Box M
Churchville, N.Y. 14428
(716) 293-3720
Ronald J. Trinkl, Superintendent
customers: 790
1990 MWh generated: 0
1990 MWh purchased: 16,748
1990 MWh sold: 15,873
1990 revenues: $578,000
established 1921

Endicott, Village of†*
1009 E. Main St.
Endicott, N.Y. 13760
(607) 757-2450
Harold Andrews, Superintendent
customers: 3,253
1990 MWh generated: 0
1990 MWh purchased: 47,871
1990 MWh sold: 45,152
1990 revenues: $1,652,000
established 1906

Fairport, Village of†*
31 S. Main St., Box 500
Fairport, N.Y. 14450
(716) 223-0440
Jon D. Sunde, General Manager
customers: 13,787
1990 MWh generated: 0
1990 MWh purchased: 329,276
1990 MWh sold: 313,630
1990 revenues: $9,377,000
established 1901

Frankfort Power & Light†*
126 E. Orchard St., Box 94
Frankfort, N.Y. 13340
(315) 894-8611
Rick Palumbo, Line Foreman
customers: 1,651
1990 MWh generated: 0
1990 MWh purchased: 18,957
1990 MWh sold: 17,607
1990 revenues: $640,000
established 1903

Freeport Light & Power†*
220 W. Sunrise Hwy.
Freeport, N.Y. 11520
(516) 378-4000
William A. Cominos, General Manager
customers: 14,707
nameplate capacity (kW): oil: 50,800
1990 MWh generated: 5,335
1990 MWh purchased: 217,517
1990 MWh sold: 213,123
1990 revenues: $13,107,000
established 1896

Gouverneur, City of
33 Clinton St.
Gouverneur, N.Y. 13642
(315) 287-0110
Ronald D. Cochrane, Director
customers: wholesale only
nameplate capacity (kW): hydro: 200
1990 MWh generated: 1,184
1990 MWh purchased: 130
1990 MWh sold: wholesale: 343
1990 revenues: wholesale: $10,000
established 1923

Green Island, City of†*
20 Clinton St.
Green Island, N.Y. 12183
(518) 273-2201
John Peek, Electric Superintendent
customers: 1,245
1990 MWh generated: 0
1990 MWh purchased: 12,064
1990 MWh sold: 11,489
1990 revenues: $673,000
established 1895

Greene, Village of†*
49 Genesee St.
Greene, N.Y. 13778
(607) 656-8311
Harvey Stalker, Superintendent
customers: 1,180
1990 MWh generated: 0
1990 MWh purchased: 31,088
1990 MWh sold: 28,950
1990 revenues: $844,000
established 1900

Greenport Municipal Utilities†*
236 3rd St., Box AH
Greenport, N.Y. 11944
(516) 477-1748
James I. Monsell, Superintendent
customers: 1,899
nameplate capacity (kW): oil: 7,685
1990 MWh generated: 110
1990 MWh purchased: 25,345
1990 MWh sold: 21,401
1990 revenues: $1,663,000
established 1899

Groton, Village of†*
108 Cortland St.
Groton, N.Y. 13073
(607) 898-3001
Frank I. Satterly, Director of Public Works
customers: 972
1990 MWh generated: 0
1990 MWh purchased: 20,592
1990 MWh sold: 19,412
1990 revenues: $722,000
established 1933

Hamilton, Village of†*
3 Broad St., Box 119
Hamilton, N.Y. 13346
(315) 824-1111
John Rathbone, Village Engineer
customers: 1,460
1990 MWh generated: 0
1990 MWh purchased: 51,202
1990 MWh sold: 47,982
1990 revenues: $1,355,000
established 1895

Holley, Village of†*
72 Public Square
Holley, N.Y. 14470
(716) 638-6587
Scott Parker, Electric Superintendent
customers: 916
1990 MWh generated: 0
1990 MWh purchased: 19,886
1990 MWh sold: 18,827
1990 revenues: $539,000
established 1889

NEW YORK *(continued)*

Ilion, Village of†*
49 Morgan St.
Ilion, N.Y. 13357
(315) 895-7749
Kevin J. Manfreda, Superintendent
customers: 3,842
1990 MWh generated: 0
1990 MWh purchased: 64,346
1990 MWh sold: 59,853
1990 revenues: $1,563,000
established 1901

Jamestown Board of Public Utilities†*
200-212 E. Third St., Box 700
Jamestown, N.Y. 14702-0700
(716) 483-7583
R. James Gronquist, P.E., General Manager
customers: 20,047
nameplate capacity (kW): coal: 57,700
1990 MWh generated: 213,197
1990 MWh purchased: 406,570
1990 MWh sold: retail: 420,140
wholesale: 184,447
1990 revenues: retail: $13,426,000
wholesale: $5,149,000
established 1890

Lake Placid Village, Inc.†*
301 Main St.
Lake Placid, N.Y. 12946
(518) 523-2021
Charles White, Superintendent
customers: 4,066
1990 MWh generated: 0
1990 MWh purchased: 125,100
1990 MWh sold: 124,500
1990 revenues: $3,785,000
established 1906

Little Valley, Village of†*
Municipal Building
Little Valley, N.Y. 14755
(716) 938-9151
Robert H. Milks, Electric Supervisor
customers: 1,180
1990 MWh generated: 0
1990 MWh purchased: 19,200
1990 MWh sold: 17,900
1990 revenues: $831,000
established 1896

Marathon, Village of†
Box 519
Marathon, N.Y. 13803
(607) 849-6795
Robert P. Braman, Superintendent
customers: 809
1990 MWh generated: 0
1990 MWh purchased: 15,854
1990 MWh sold: 14,737
1990 revenues: $637,000
established 1901

Massena Electric Department†*
71 E. Hatfield St., Box 209
Massena, N.Y. 13662
(315) 764-0253
Clifford G. Engstrom, General Manager
customers: 8,650
1990 MWh generated: 0
1990 MWh purchased: 125,301
1990 MWh sold: 122,944
1990 revenues: $5,634,000
established 1981

Mayville, Village of†*
Box 188
Mayville, N.Y. 14757
(716) 753-2125
Chester E. Crandall, Public Works Superintendent
customers: 1,025
1990 MWh generated: 0
1990 MWh purchased: 22,594
1990 MWh sold: 20,602
1990 revenues. $685,000
established 1896

Mohawk Municipal Commission†*
28 Columbia St.
Mohawk, N.Y. 13407
(315) 866-4170
William Buddenhagen, Utilities Supervisor
customers: 1,302
1990 MWh generated: 0
1990 MWh purchased: 21,386
1990 MWh sold: 19,744
1990 revenues: $745,000
established 1904

New York Power Authority†*
1633 Broadway
New York, N.Y. 10019
(212) 468-6000
John C. Brons, President
customers: 93
nameplate capacity (kW): nuclear: 1,896,000; hydro: 4,135,950; oil: 883,000
1990 MWh generated: 34,138,028
1990 MWh purchased: 4,419,301
1990 MWh sold: retail: 13,287,071
wholesale: 24,880,327
1990 revenues: retail: $698,186,000
wholesale: $533,352,000
established 1931

Penn Yan, Village of†*
5 Maiden Lane
Penn Yan, N.Y. 14527
(315) 536-3374
Carl H. Stuck, Utilities Operations Supervisor
customers: 2,773
1990 MWh generated: 0
1990 MWh purchased: 59,981
1990 MWh sold: 56,143
1990 revenues: $1,862,000
established 1905

Philadelphia, Village of†*
Box 70
Philadelphia, N.Y. 13673
(315) 642-3452
Philip Hughes Jr., Superintendent of Public Works
customers: 647
1990 MWh generated: 0
1990 MWh purchased: 10,136
1990 MWh sold: 9,238
1990 revenues: $376,000
established 1906

Plattsburgh, City of†*
6 Miller St.
Plattsburgh, N.Y. 12901
(518) 563-2200
Robert E. Metz, Manager
customers: 8,904
1990 MWh generated: 0
1990 MWh purchased: 525,979
1990 MWh sold: 513,092
1990 revenues: $9,839,000
established 1941

Richmondville, Village of†*
22 E. Main St.
Richmondville, N.Y. 12149
(518) 294-7700
Bruce R. Stevens, Superintendent
customers: 957
1990 MWh generated: 0
1990 MWh purchased: 11,700
1990 MWh sold: 10,900
1990 revenues: $528,000
established 1918

Rockville Centre, Village of†*
Box 950
Rockville Centre, N.Y. 11571
(516) 766-0300
Patrick J. Hester, Superintendent
customers: 10,168
nameplate capacity (kW): oil: 31,348
1990 MWh generated: 46,323
1990 MWh purchased: 130,360
1990 MWh sold: 166,668
1990 revenues: $9,045,000
established 1898

Rouses Point, Village of†*
139 Lake St.
Rouses Point, N.Y. 12979
(518) 297-5502
Arthur M. Bowker, Village Administrator
customers: 1,187
1990 MWh generated: 0
1990 MWh purchased: 82,890
1990 MWh sold: 76,670
1990 revenues: $1,798,000
established 1903

Salamanca Board of Public Utilities†
225 Wildwood Ave.
Salamanca, N.Y. 14779
(716) 945-3130
James M. Brundage, General Manager
customers: 3,458
1990 MWh generated: 0
1990 MWh purchased: 64,412
1990 MWh sold: 60,079
1990 revenues: $1,383,000
established 1913

Sherburne, Village of†*
15 W. State St.
Sherburne, N.Y. 13460
(607) 674-2300
Kenneth W. Budine, Superintendent
customers: 2,260
1990 MWh generated: 0
1990 MWh purchased: 56,931
1990 MWh sold: 53,201
1990 revenues: $1,885,000
established 1907

Sherrill, City of†*
601 Sherrill Road
Sherrill, N.Y. 13461
(315) 363-6479
Lawrence Pickard, Superintendent
customers: 1,505
1990 MWh generated: 0
1990 MWh purchased: 63,649
1990 MWh sold: 61,485
1990 revenues: $1,389,000
established 1977

Silver Springs, Village of†
43 N. Main St.
Silver Springs, N.Y. 14550
(716) 493-2500
Allen Putney, Superintendent
customers: 412
1990 MWh generated: 0
1990 MWh purchased: 4,548
1990 MWh sold: 4,075
1990 revenues: $170,000
established 1912

Skaneateles, Village of†*
46 E. Genesee St.
Skaneateles, N.Y. 13152
(315) 685-5628
Superintendent
customers: 1,368
nameplate capacity (kW): oil: 376
1990 MWh generated: 0
1990 MWh purchased: 24,768
1990 MWh sold: 22,994
1990 revenues: $919,000
established 1900

Solvay, Village of†*
507 Charles Ave.
Solvay, N.Y. 13209
(315) 468-6229
M. V. Raman, P.E., Manager & Chief Engineer
customers: 4,663
1990 MWh generated: 0
1990 MWh purchased: 126,156
1990 MWh sold: 116,347
1990 revenues: $3,179,000
established 1858

Spencerport, Village of†*
27 West Ave.
Spencerport, N.Y. 14559
(716) 352-4771
James Bleier, General Manager of Operations
customers: 2,384
1990 MWh generated: 0
1990 MWh purchased: 54,198
1990 MWh sold: 51,191
1990 revenues: $1,683,000
established 1916

Springville, Village of†
5 W. Main St.
Springville, N.Y. 14141
(716) 592-2310
Robert K. Botsford, Foreman
customers: 2,242
nameplate capacity (kW): hydro: 600
1990 MWh generated: 1,934
1990 MWh purchased: 50,422
1990 MWh sold: 49,247
1990 revenues: $1,638,000
established 1895

Theresa Municipal Electric†*
124 Commercial St., Box 299
Theresa, N.Y. 13691
(315) 628-4425
Gerard Kipp
customers: 429
1990 MWh generated: 0
1990 MWh purchased: 6,940
1990 MWh sold: 6,318
1990 revenues: $267,000
established 1906

Tupper Lake Municipal Electric System†*
53 Park St.
Tupper Lake, N.Y. 12986
(518) 359-3341
Donald T. Trudeau, Superintendent
customers: 3,060
1990 MWh generated: 0
1990 MWh purchased: 77,805
1990 MWh sold: 73,789
1990 revenues: $2,253,000
established 1903

Watertown, City of
245 Washington St., Room 305
Watertown, N.Y. 13601
(315) 785-7740
John T. Bouck, Electrical Superintendent
customers: 7
nameplate capacity (kW): hydro: 5,400
1990 MWh generated: 26,826
1990 MWh purchased: 2,342
1990 MWh sold: retail: 13,625
wholesale: 9,095
1990 revenues: retail: $478,000
wholesale: $84,000
established 1924

Watkins Glen Electric Department†
303 N. Franklin St.
Watkins Glen, N.Y. 14891
(607) 535-2736
John B. Doolittle, Manager
customers: 1,306
1990 MWh generated: 0
1990 MWh purchased: 38,742

---

* Member, American Public Power Association
† Member, Demonstration of Energy-Efficient Developments Program

NEW YORK *(continued)*

1990 MWh sold: 35,808
1990 revenues: $1,117,000
established 1918

Wellsville Electric Department†*
97 W. State St., Box 591
Wellsville, N.Y. 14895
(716) 593-4950
Robert L. Chaffee, Director of Public Works
customers: 2,621
1990 MWh generated: 0
1990 MWh purchased: 57,318
1990 MWh sold: 51,644
1990 revenues: $1,444,000
established 1915

Westfield, Village of†*
23 Elm St.
Westfield, N.Y. 14787
(716) 326-2145
Leroy J. Hamilton, Electric Superintendent
customers: 3,084
1990 MWh generated: 0
1990 MWh purchased: 69,000
1990 MWh sold: 63,000
1990 revenues: $1,799,000
established 1892

North Carolina

(Systems designated (TVA) are distributors of Tennessee Valley Authority power and purchase all of their power from TVA.)

Albemarle, City of*
Box 190
Albemarle, N.C. 28001
(704) 982-0131
Garey S. Edwards, Director of Public Utilities
customers: 10,379
1990 MWh generated: 0
1990 MWh purchased: 250,313
1990 MWh sold: 223,544
1990 revenues: $15,112,000
established 1910

Apex, Town of*
205 Saunders St., Box 250
Apex, N.C. 27502
(919) 362-8166
Larry P. Thomas, Director of Public Works
customers: 2,810
1990 MWh generated: 0
1990 MWh purchased: 42,997
1990 MWh sold: 39,535
1990 revenues: $3,749,000
established 1923

Ayden, Town of*
Box 219
Ayden, N.C. 28513
(919) 746-2526
Jimmy Westbrook, Utility Director
customers: 3,082
1990 MWh generated: 0
1990 MWh purchased: 75,495
1990 MWh sold: 69,629
1990 revenues: $5,838,000
established 1915

Belhaven, Town of*
Box 220
Belhaven, N.C. 27810
(919) 943-3055
David R. Draughn, Town Manager
customers: 1,204
1990 MWh generated: 0
1990 MWh purchased: 20,134
1990 MWh sold: 18,883
1990 revenues: $1,898,000
established 1920

Benson, Town of*
303 E. Church St., Box 69
Benson, N.C. 27504
(919) 894-3553
Keith R. Langdon, Town Administrator
customers: 1,623
1990 MWh generated: 0
1990 MWh purchased: 32,137
1990 MWh sold: 28,803
1990 revenues: $2,471,000
established 1913

Black Creek, Town of*
Box 8
Black Creek, N.C. 27813
(919) 243-6439
John Woodruff, Superintendent of Public Works
customers: 595
1990 MWh generated: 0
1990 MWh purchased: 7,703
1990 MWh sold: 6,744
1990 revenues: $698,000
established 1922

Bostic, Town of*
Main St., Box 158
Bostic, N.C. 28018
(704) 245-2187
Charles Morgan, Superintendent of Lights
customers: 173
1990 MWh generated: 0
1990 MWh purchased: 2,423
1990 MWh sold: 2,098
1990 revenues: $127,000
established 1920

Cherryville, City of*
116 S. Mountain St.
Cherryville, N.C. 28021
(704) 435-4181
Ted Mace, Director of Public Works
customers: 2,328
1990 MWh generated: 0
1990 MWh purchased: 58,525
1990 MWh sold: 54,275
1990 revenues: $3,497,000
established 1906

Clayton, Town of*
231 E. Second St., Box 879
Clayton, N.C. 27520
(919) 553-5866
Charles W. Weber, Electrical Superintendent
customers: 2,535
1990 MWh generated: 0
1990 MWh purchased: 50,080
1990 MWh sold: 47,354
1990 revenues: $3,426,000
established 1925

Concord, City of*
66 Union St. S., Box 567
Concord, N.C. 28025
(704) 786-6161
Stephen H. Slough, Utilities Director
customers: 15,303
1990 MWh generated: 0
1990 MWh purchased: 344,348
1990 MWh sold: 326,781
1990 revenues: $21,893,000
established 1901

Cornelius, Town of*
Box 399
Cornelius, N.C. 28031
(704) 892-6031
Robert Race, Town Administrator
customers: 1,061
1990 MWh generated: 0
1990 MWh purchased: 19,700
1990 MWh sold: 17,800
1990 revenues: $1,256,000

Dallas, Town of
131 N. Gaston St.
Dallas, N.C. 28034
(704) 922-3176
John Ferguson, Public Utilities Director
customers: 2,649
1990 MWh generated: 0
1990 MWh purchased: 45,285
1990 MWh sold: 38,899
1990 revenues: $2,609,000
established 1925

Drexel, Town of*
Box 188
Drexel, N.C. 28619
(704) 437-7421
Morris Baker, Town Manager
customers: 1,126
1990 MWh generated: 0
1990 MWh purchased: 16,510
1990 MWh sold: 15,147
1990 revenues: $1,101,000
established 1927

Edenton, Town of*
Box 300
Edenton, N.C. 27932
(919) 482-4144
William Crummey, Director of Utilities
customers: 3,500
nameplate capacity (kW): unavailable
1990 MWh generated: 281
1990 MWh purchased: 85,837
1990 MWh sold: 81,271
1990 revenues: $6,846,000
established 1900

Elizabeth City, City of*
300 E. Colonial Ave.
Elizabeth City, N.C. 27909
(919) 338-3981
Ronnie Dail, Electric Director
customers: 9,430
1990 MWh generated: 0
1990 MWh purchased: 219,299
1990 MWh sold: 198,533
1990 revenues: $15,945,000
established 1923

Enfield, Town of
Box 695
Enfield, N.C. 27823
(919) 445-3146
Joseph N. Adkins, Utility Director
customers: 1,593
1990 MWh generated: 0
1990 MWh purchased: 24,034
1990 MWh sold: 20,882
1990 revenues: $1,906,000

Farmville, Town of*
200 N. Main St.
Farmville, N.C. 27828
(919) 753-3021
C. W. Modlin Jr., Director of Utilities
customers: 2,710
1990 MWh generated: 0
1990 MWh purchased: 56,000
1990 MWh sold: retail: 42,700
wholesale: 4,700
1990 revenues: retail: $3,517,000
wholesale: $338,000
established 1915

Fayetteville Public Works Commission*
508 Person St., Box 1089
Fayetteville, N.C. 28302
(919) 483-1401
Timothy Wood, General Manager
customers: 58,802
nameplate capacity (kW): gas: 230,400; other: 73,000
1990 MWh generated: 159,049
1990 MWh purchased: 1,394,977
1990 MWh sold: retail: 1,552,583
wholesale: 465
1990 revenues: retail: $111,729,000
wholesale: $28,000
established 1905

Forest City, Town of
12 N. Powell St., Box 728
Forest City, N.C. 28043
(704) 245-4747
Chuck Summey, Town Manager
customers: 4,389
1990 MWh generated: 0
1990 MWh purchased: 129,404
1990 MWh sold: 114,875
1990 revenues: $7,360,000

Fountain, Town of*
Box 134
Fountain, N.C. 27829
(919) 749-2881
Robert Drew, Director
customers: 346
1990 MWh generated: 0
1990 MWh purchased: 5,354
1990 MWh sold: 5,013
1990 revenues: $355,000
established 1936

Fremont, Town of*
Box 818
Fremont, N.C. 27830
(919) 242-5151
Ray Radford, Public Works Director
customers: 896
1990 MWh generated: 0
1990 MWh purchased: 13,451
1990 MWh sold: 12,837
1990 revenues: $1,054,000

Gastonia, City of*
Box 1748
Gastonia, N.C. 28053
(704) 866-6825
Dale F. Becker, Director
customers: 22,533
1990 MWh generated: 0
1990 MWh purchased: 576,432
1990 MWh sold: 559,792
1990 revenues: $37,332,000
established 1900

Granite Falls, Town of†*
30 Park Square
Granite Falls, N.C. 28630
(704) 396-3131
Linda K. Story, Town Manager
customers: 1,727
1990 MWh generated: 0
1990 MWh purchased: 36,065
1990 MWh sold: 33,002
1990 revenues: $2,527,000

Greenville Utilities Commission*
200 W. Fifth St., Box 1847
Greenville, N.C. 27835
(919) 752-7166
Malcolm A. Green, General Manager
customers: 35,297
1990 MWh generated: 0
1990 MWh purchased: 1,004,846
1990 MWh sold: retail: 964,315
wholesale: 21,840
1990 revenues: retail: $78,860,000
wholesale: $1,576,000
established 1905

Hamilton, Town of*
Box 249
Hamilton, N.C. 27840
(919) 798-2001
Kathryn N. Moore, Town Clerk
customers: 250
1990 MWh generated: 0
1990 MWh purchased: 3,681
1990 MWh sold: 3,609
1990 revenues: $307,000
established 1922

---

* Member, American Public Power Association
† Member, Demonstration of Energy-Efficient Developments Program

Hertford, Town of*
Box 32
Hertford, N.C. 27944
(919) 426-5311
Bill Cox, Town Manager
customers: 1,383
1990 MWh generated: 0
1990 MWh purchased: 21,011
1990 MWh sold: 20,045
1990 revenues: $1,788,000
established 1918

High Point, City of*
211 S. Hamilton St.
High Point, N.C. 27261
(919) 883-3172
Lloyd D. Shank Jr., Director of Electric Utilities
customers: 30,328
1990 MWh generated: 0
1990 MWh purchased: 777,085
1990 MWh sold: 727,707
1990 revenues: $49,278,000
established 1892

Highlands
Box 460
Highlands, N.C. 28741
(704) 526-2118
Turner Ramey, Foreman
customers: 2,300
1990 MWh generated: 0
1990 MWh purchased: 26,916
1990 MWh sold: 22,289
1990 revenues: $1,442,000
established 1926

Hobgood, Town of*
Box 217
Hobgood, N.C. 27843
(919) 826-4573
Alex Coggin, Electric Commissioner
customers: 331
1990 MWh generated: 0
1990 MWh purchased: 4,324
1990 MWh sold: 3,586
1990 revenues: $390,000
established 1973

Hookerton, Town of*
227 E. Main St., Box 296
Hookerton, N.C. 28538
(919) 747-3816
Christy Letchworth, Town Clerk
customers: 354
1990 MWh generated: 0
1990 MWh purchased: 5,301
1990 MWh sold: 4,834
1990 revenues: $440,000
established 1907

Huntersville, Town of*
Box 664
Huntersville, N.C. 28078
(704) 875-6541
Ed Humphries, Town Manager
customers: 1,362
1990 MWh generated: 0
1990 MWh purchased: 23,604
1990 MWh sold: 23,604
1990 revenues: $1,705,000
established 1885

Kings Mountain, City of*
103 W. Gold St., Box 429
Kings Mountain, N.C. 28086
(704) 734-0333
Jimmy Maney, Utilities Director
customers: 3,981
1990 MWh generated: 0
1990 MWh purchased: 99,080
1990 MWh sold: 97,570
1990 revenues: $6,396,000
established 1903

Kinston, City of*
207 E. King St., Box 339
Kinston, N.C. 28502
(919) 559-4253
Ronald D. Wicker, Director
customers: 12,582
1990 MWh generated: 0
1990 MWh purchased: 379,084
1990 MWh sold: 370,237
1990 revenues: $30,532,000
established 1897

La Grange, Town of*
120 E. Railroad St.
La Grange, N.C. 28551
(919) 566-3186
Thomas Monsees, Utilities Director
customers: 1,395
1990 MWh generated: 0
1990 MWh purchased: 22,247
1990 MWh sold: 19,733
1990 revenues: $1,871,000

Lake Lure, City of
Box 255
Lake Lure, N.C. 28746
(704) 625-9396
F. E. Isenhour Jr., Finance Officer
customers: wholesale only
nameplate capacity (kW): hydro: 3,600
1990 MWh generated: 9,235
1990 MWh purchased: 0
1990 MWh sold: wholesale: 9,235
1990 revenues: wholesale: $388,000
established 1927

Landis, Town of*
136 N. Central Ave.
Landis, N.C. 28088
(704) 857-2411
Bobby O. Wood, Director
customers: 2,431
1990 MWh generated: 0
1990 MWh purchased: 35,443
1990 MWh sold: 31,677
1990 revenues: $2,298,000
established 1901

Laurinburg, City of*
303 W. Church St., Box 249
Laurinburg, N.C. 28352
(919) 276-8324
Peter G. Vandenberg, City Manager
customers: 5,402
1990 MWh generated: 0
1990 MWh purchased: 115,982
1990 MWh sold: 110,252
1990 revenues: $9,374,000
established 1925

Lexington, City of*
28 W. Center St.
Lexington, N.C. 27292
(704) 243-2489
B. Paul Webster Jr., Superintendent of Lights
customers: 16,181
1990 MWh generated: 0
1990 MWh purchased: 411,689
1990 MWh sold: 389,056
1990 revenues: $26,530,000
established 1902

Lincolnton, City of*
114 W. Sycamore St.
Lincolnton, N.C. 28092
(704) 732-2281
David E. Lowe, City Manager
customers: 2,517
1990 MWh generated: 0
1990 MWh purchased: 58,596
1990 MWh sold: 47,825
1990 revenues: $3,340,000
established 1900

Louisburg, Town of*
110 W. Nash St.
Louisburg, N.C. 27549
(919) 496-3406
C. L. Gobble, Town Administrator
customers: 1,801
1990 MWh generated: 0
1990 MWh purchased: 43,200
1990 MWh sold: 38,000
1990 revenues: $3,690,000

Lucama, Town of*
111 Main St.
Lucama, N.C. 27851
(919) 239-0560
Donnie H. Barnes, Utilities Director
customers: 1,085
1990 MWh generated: 0
1990 MWh purchased: 14,338
1990 MWh sold: 13,833
1990 revenues: $1,460,000

Lumberton, City of*
420 Halsey St.
Lumberton, N.C. 28358
(919) 671-3865
Director
customers: 8,989
1990 MWh generated: 0
1990 MWh purchased: 256,016
1990 MWh sold: 235,825
1990 revenues: $20,013,000
established 1907

Macclesfield, Town of*
Box 185
Macclesfield, N.C. 27852
(919) 827-4823
Phillip Wainwright, Town Superintendent
customers: 270
1990 MWh generated: 0
1990 MWh purchased: 4,508
1990 MWh sold: 3,813
1990 revenues: $384,000
established 1928

Maiden, Town of*
113 W. Main St., Box 125
Maiden, N.C. 28650
(704) 428-5020
Marshall Shepherd, Town Manager
customers: 911
1990 MWh generated: 0
1990 MWh purchased: 55,716
1990 MWh sold: 52,665
1990 revenues: $3,294,000
established 1928

Monroe, City of*
300 W. Crowell St., Box 69
Monroe, N.C. 28111-0069
(704) 282-4503
Jerry E. Cox, City Manager
customers: 9,197
1990 MWh generated: 0
1990 MWh purchased: 404,077
1990 MWh sold: 390,671
1990 revenues: $23,218,000
established 1898

Morganton, City of*
201 W. Meeting St.
Morganton, N.C. 28655
(704) 438-5282
Jay Coffey, Director of Public Utilities
customers: 8,014
1990 MWh generated: 0
1990 MWh purchased: 260,215
1990 MWh sold: 248,711
1990 revenues: $14,776,000
established 1908

Murphy, City of*
301 Peachtree St., Box 130
Murphy, N.C. 28906
(704) 837-2211
John Carringer, Manager
customers: 3,725
1990 MWh generated: 0
1990 MWh purchased: 141,887 (TVA)
1990 MWh sold: 137,541
1990 revenues: $7,987,000
established 1922

New Bern, City of*
Box 1129
New Bern, N.C. 28560
(919) 636-4051
Charles H. Kimbrell, Director
customers: 14,123
1990 MWh generated: 0
1990 MWh purchased: 344,477
1990 MWh sold: 327,253
1990 revenues: $25,557,000
established 1906

New River Light & Power Co.*
Winkler's Creek Road, Box 1130
Boone, N.C. 28607
(704) 264-3671
Donald R. Austin, General Manager
customers: 6,281
1990 MWh generated: 0
1990 MWh purchased: 162,949
1990 MWh sold: 158,191
1990 revenues: $10,492,000
established 1915

Newton, City of*
401 N. Main Ave., Box 550
Newton, N.C. 28658
(704) 465-7400
Richard L. French, City Manager
customers: 3,653
1990 MWh generated: 0
1990 MWh purchased: 82,608
1990 MWh sold: 74,572
1990 revenues: $4,928,000
established 1907

North Carolina Eastern Municipal Power Agency*
1427 Meadowwood Blvd., Box 29513
Raleigh, N.C. 27626-0513
(919) 832-9924
James T. Bobo, General Manager
customers: wholesale only
nameplate capacity (kW): nuclear: 471,510; coal: 215,410
1990 MWh generated: 3,887,867
1990 MWh purchased: 1,982,367
1990 MWh sold: wholesale: 5,755,993
1990 revenues: wholesale: $372,179,000
established 1976
(*see expanded joint action agency section, page 140*)

North Carolina Municipal Power Agency No. 1*
1427 Meadowwood Blvd., Box 29513
Raleigh, N.C. 27626-0513
(919) 832-9924
James T. Bobo, General Manager
customers: wholesale only
nameplate capacity (kW): nuclear: 903,830
1990 MWh generated: 4,957,438
1990 MWh purchased: 3,007,329
1990 MWh sold: wholesale: 7,857,553
1990 revenues: wholesale: $432,647,000
established 1976
(*see expanded joint action agency section, page 140*)

Oak City, Town of
Box 298
Oak City, N.C. 27857
(919) 798-7721
Laurie D. Joyner, Clerk
customers: 237
1990 MWh generated: 0
1990 MWh purchased: 3,454
1990 MWh sold: 2,999
1990 revenues: $235,000

Pikeville, Town of*
Box 9
Pikeville, N.C. 27863
(919) 242-5126
Robert W. Davy, Town Administrator
customers: 712

1990 MWh generated: 0
1990 MWh purchased: 8,613
1990 MWh sold: 8,215
1990 revenues: $700,000
established 1934

Pinetops, Town of*
Drawer C
Pinetops, N.C. 27864
(919) 827-4435
Milton Carlton, Clerk
customers: 755
1990 MWh generated: 0
1990 MWh purchased: 15,619
1990 MWh sold: 15,007
1990 revenues: $1,491,000
established 1925

Pineville Electric Co.*
118 College St., Box 249
Pineville, N.C. 28134
(704) 889-2291
Mary Ann Creech, Town Administrator
customers: 2,051
1990 MWh generated: 0
1990 MWh purchased: 39,690
1990 MWh sold: 36,662
1990 revenues: $2,794,000
established 1934

Red Springs, Town of*
217 S. Main St.
Red Springs, N.C. 28377
(919) 843-5241
Paul Morrison, Superintendent
customers: 1,600
1990 MWh generated: 0
1990 MWh purchased: 29,146
1990 MWh sold: 25,334
1990 revenues: $2,486,000
established 1920

Robersonville, City of*
Box 487
Robersonville, N.C. 27871
(919) 795-3511
Ralph S. Mobley, Town Administrator
customers: 1,269
1990 MWh generated: 0
1990 MWh purchased: 33,084
1990 MWh sold: 29,280
1990 revenues: $2,340,000
established 1914

Rocky Mount, City of*
1 Government Plaza, Box 1180
Rocky Mount, N.C. 27802
(919) 972-1325
William H. Batchelor, City Manager
customers: 24,797
1990 MWh generated: 0
1990 MWh purchased: 759,807
1990 MWh sold: retail: 704,907
wholesale: 14,037
1990 revenues: retail: $52,070,000
wholesale: $911,000
established 1902

Scotland Neck, Town of*
1310 Main St., Box 537
Scotland Neck, N.C. 27874
(919) 826-3152
Radford Thomas, Town Administrator
customers: 2,186
1990 MWh generated: 0
1990 MWh purchased: 30,993
1990 MWh sold: 28,081
1990 revenues: $2,522,000

Selma, Town of*
100 N. Raiford St.
Selma, N.C. 27576
(919) 965-9841
Fred Murray, Electric Superintendent
customers: 2,181
1990 MWh generated: 0
1990 MWh purchased: 44,000
1990 MWh sold: 40,000
1990 revenues: $3,525,000

Sharpsburg, Town of*
Box 1759
Sharpsburg, N.C. 27878
(919) 446-9441
Wayne Cochran, Superintendent of Lights
customers: 1,150
1990 MWh generated: 0
1990 MWh purchased: 14,066
1990 MWh sold: 13,054
1990 revenues: $1,194,000
established 1920

Shelby, City of*
City Hall, Box 207
Shelby, N.C. 28150
(704) 484-6866
Smith Lingerfelt, Electric Manager
customers: 7,633
1990 MWh generated: 0
1990 MWh purchased: 164,289
1990 MWh sold: 153,000
1990 revenues: $10,807,000
established 1913

Smithfield, City of*
116 S. Fourth St., Box 761
Smithfield, N.C. 27577
(919) 934-2116
Ralph A. Clark, City Manager
customers: 4,505
1990 MWh generated: 0
1990 MWh purchased: 114,870
1990 MWh sold: 109,728
1990 revenues: $9,181,000

Southport, City of*
201 E. Moore St.
Southport, N.C. 28461
(919) 457-6911
Robert W. Hites, Jr., City Manager
customers: 1,722
1990 MWh generated: 0
1990 MWh purchased: 41,101
1990 MWh sold: 38,194
1990 revenues: $3,466,000
established 1910

Stantonsburg, Town of*
108 E. Commercial Ave., Box 10
Stantonsburg, N.C. 27883
(919) 238-3608
Roland L. Gardner, Town Manager
customers: 973
1990 MWh generated: 0
1990 MWh purchased: 14,021
1990 MWh sold: 12,418
1990 revenues: $1,298,000
established 1928

Statesville, City of*
915 Winston Ave., Box 1111
Statesville, N.C. 28677
(704) 878-3419
Larry M. Cranford, Director of Electric Utilities
customers: 11,141
1990 MWh generated: 0
1990 MWh purchased: 360,618
1990 MWh sold: 341,240
1990 revenues: $24,211,000
established 1889

Tarboro, Town of*
500 Main St., Box 220
Tarboro, N.C. 27886
(919) 641-4252
Ricky Page, Director
customers: 6,813
1990 MWh generated: 0
1990 MWh purchased: 233,432
1990 MWh sold: 224,265
1990 revenues: $16,746,000
established 1898

Wake Forest, Town of*
401 E. Elm St.
Wake Forest, N.C. 27587
(919) 556-2024
Robert A. Slade, Town Administrator
customers: 2,712
1990 MWh generated: 0
1990 MWh purchased: 51,594
1990 MWh sold: 48,285
1990 revenues: $4,605,000
established 1909

Walstonburg, Town of*
E. Railroad St., Box 126
Walstonburg, N.C. 27888
(919) 753-5667
W. S. Warren, Utility Director
customers: 133
1990 MWh generated: 0
1990 MWh purchased: 1,853
1990 MWh sold: 1,587
1990 revenues: $174,000
established 1922

Washington, City of*
102 E. Second St.
Washington, N.C. 27889
(919) 946-1033
E.D. Burchins, City Manager
customers: 10,520
1990 MWh generated: 0
1990 MWh purchased: 224,805
1990 MWh sold: 207,592
1990 revenues: $19,334,000
established 1910

Waynesville, City of
106 S. Main St.
Waynesville, N.C. 28786
(704) 456-3515
John Yarborough, Superintendent
customers: 2,612
1990 MWh generated: 0
1990 MWh purchased: 50,985
1990 MWh sold: 46,696
1990 revenues: $3,670,000

Wilson, City of*
1800 Herring Ave., Box 10
Wilson, N.C. 27893
(919) 291-7135
Charles W. Whitley Jr., Director of Utilities
customers: 28,902
1990 MWh generated: 0
1990 MWh purchased: 908,045
1990 MWh sold: retail: 791,465
wholesale: 57,681
1990 revenues: retail: $58,619,000
wholesale: $4,012,000
established 1892

Windsor, Town of
Box 508
Windsor, N.C. 27983
(919) 794-2331
David Overton, Administrator
customers: 1,553
1990 MWh generated: 0
1990 MWh purchased: 32,141
1990 MWh sold: 30,560
1990 revenues: $2,313,000
established 1920

Winterville, Town of*
Box 1267
Winterville, N.C. 28590
(919) 756-2221
Elwood Nobles, Town Clerk
customers: 1,249
1990 MWh generated: 0
1990 MWh purchased: 53,000
1990 MWh sold: 51,000
1990 revenues: $1,800,000
established 1912

North Dakota

Cavalier, City of†*
Box B
Cavalier, N.D. 58220
(701) 265-8668
Robert Kihne, Director of Public Works
customers: 871
1990 MWh generated: 0
1990 MWh purchased: 19,375
1990 MWh sold: 16,872
1990 revenues: $782,000
established 1928

Grafton, City of*
5 E. Fourth St., Box 578
Grafton, N.D. 58237
(701) 352-2180
Bruce Lenz, Power Superintendent
customers: 2,781
nameplate capacity (kW): oil: 4,080
1990 MWh generated: 0
1990 MWh purchased: 59,940
1990 MWh sold: 54,713
1990 revenues: $2,442,000
established 1895

Hillsboro, City of†*
204 Second Ave. N.W.
Hillsboro, N.D. 58045
(701) 436-4620
Carl Tessin, Superintendent
customers: 998
1990 MWh generated: 0
1990 MWh purchased: 18,686
1990 MWh sold: 12,191
1990 revenues: $794,000

Hope Municipal Utilities†
1 Main St., Box 189
Hope, N.D. 58046
(701) 945-2772
Kerry McCullough, City Auditor
customers: 210
1990 MWh generated: 0
1990 MWh purchased: 6,100
1990 MWh sold: 6,100
1990 revenues: $223,000
established 1920

Lakota, City of†*
Box 505
Lakota, N.D. 58344
(701) 247-2454
Kenneth Hulstrand, Mayor
customers: 564
1990 MWh generated: 0
1990 MWh purchased: 12,429
1990 MWh sold: 10,839
1990 revenues: $407,000
established 1930

Maddock, City of*
Second St. and Dakota Ave.
Maddock, N.D. 58348
(701) 438-2252
Frank Messer, Superintendent
customers: 313
1990 MWh generated: 0
1990 MWh purchased: 5,014
1990 MWh sold: 4,418
1990 revenues: $330,000

Northwood, City of†*
Box 397
Northwood, N.D. 58267
(701) 587-6291
Art Johnson, City Superintendent
customers: 582
nameplate capacity (kW): oil: 1,811
1990 MWh generated: 0
1990 MWh purchased: 14,581
1990 MWh sold: 12,563
1990 revenues: $676,000
established 1912

---

* Member, American Public Power Association
† Member, Demonstration of Energy-Efficient Developments Program

Park River, City of
Box C
Park River, N.D. 58270
(701) 284-6399
Dennis L. Larson, Superintendent
customers: 829
nameplate capacity (kW): oil: 700
1990 MWh generated: 0
1990 MWh purchased: 20,841
1990 MWh sold: 17,913
1990 revenues: $1,016,000
established 1901

Sharon Light & Power Department
Sharon, N.D. 58277
(701) 524-2377
Gary Johnson, Mayor
customers: 75
1990 MWh generated: 0
1990 MWh purchased: 1,557
1990 MWh sold: 1,207
1990 revenues: $47,000

Stanton, City of
109 Harmon Ave.
Stanton, N.D. 58571
(701) 745-3395
Kerry Miller, Maintenance Supervisor
customers: 251
1990 MWh generated: 0
1990 MWh purchased: 3,900
1990 MWh sold: 3,600
1990 revenues: $296,000
established 1974

Valley City Public Works Department†*
254 Second Ave. N.E.
Valley City, N.D. 58072
(701) 845-5149
LeRoy J. Neubauer, Director
customers: 4,074
nameplate capacity (kW): oil: 2,720
1990 MWh generated: 0
1990 MWh purchased: 88,426
1990 MWh sold: 83,646
1990 revenues: $2,796,000
established 1893

Ohio

Amherst, City of*
647 Park Ave.
Amherst, Ohio 44001
(216) 984-2146
Donald Woodings, Superintendent
customers: 3,910
1990 MWh generated: 0
1990 MWh purchased: 61,800
1990 MWh sold: 57,912
1990 revenues: $3,482,000

American Municipal Power-Ohio*
601 Dempsey Road, Box 549
Westerville, Ohio 43081
(614) 890-2805
Kenneth L. Hegemann, President
customers: 1
nameplate capacity (kW): unavailable
1990 MWh generated: 1,193,359
1990 MWh purchased: 3,120,516
1990 MWh sold: retail: 591,716
wholesale: 3,722,159
1990 revenues: retail: $16,378,000
wholesale: $118,393,000
established 1971
(*see expanded joint action agency section, page 140*)

Arcadia, Village of
104 Gibson St.
Arcadia, Ohio 44804
(419) 894-6009
David Noel, Village Administrator
customers: 277
1990 MWh generated: 0
1990 MWh purchased: 3,948
1990 MWh sold: 3,665
1990 revenues: $197,000
established 1919

Arcanum, City of
104 W. South St.
Arcanum, Ohio 45304
(513) 692-8565
Michael Clark, Superintendent
customers: 1,629
nameplate capacity (kW): oil: 1,300
1990 MWh generated: 0
1990 MWh purchased: 22,054
1990 MWh sold: 18,646
1990 revenues: $1,110,000
established 1905

Beach City, City of*
301 N. Church Ave.
Beach City, Ohio 44608
(216) 756-2682
Robert Raff, Superintendent
customers: 865
1990 MWh generated: 0
1990 MWh purchased: 8,010
1990 MWh sold: 7,306
1990 revenues: $516,000
established 1919

Bethel, Village of
120 N. Main St.
Bethel, Ohio 45106-1000
(513) 734-2243
Dennis Barton, Electric Superintendent
customers: 1,371
1990 MWh generated: 0
1990 MWh purchased: 21,000
1990 MWh sold: 20,500
1990 revenues: $1,418,000
established 1904

Blanchester Board of Public Affairs
Box 158
Blanchester, Ohio 45107
(513) 783-2141
Donald Walker, Director of Utilities
customers: 1,946
1990 MWh generated: 0
1990 MWh purchased: 42,208
1990 MWh sold: 38,354
1990 revenues: $1,976,000
established 1895

Bloomdale, Village of*
Box 218
Bloomdale, Ohio 44817
(419) 454-2941
Ray Taylor, Village Administrator
customers: 292
1990 MWh generated: 0
1990 MWh purchased: 2,950
1990 MWh sold: 2,574
1990 revenues: $172,000

Bowling Green, City of*
304 N. Church St., Box 388
Bowling Green, Ohio 43402
(419) 354-6246
Daryl D. Stockburger, Utilities Director
customers: 10,450
1990 MWh generated: 0
1990 MWh purchased: 276,265
1990 MWh sold: retail: 259,430
wholesale: 2,877
1990 revenues: retail: $13,454,000
wholesale: $151,000
established 1942

Bradner, Village of
Box 599
Bradner, Ohio 43406
(419) 288-2773
Richard Fairbanks, Electrical Supervisor
customers: 530
1990 MWh generated: 0
1990 MWh purchased: 6,000
1990 MWh sold: 5,750
1990 revenues: $379,000

Brewster, City of
910 S. Wabash Ave., Box 86
Brewster, Ohio 44613
(216) 767-3312
Leland Heath, Superintendent
customers: 953
1990 MWh generated: 0
1990 MWh purchased: 30,307
1990 MWh sold: 26,760
1990 revenues: $1,526,000
established 1912

Bryan, City of*
841 E. Edgerton St.
Bryan, Ohio 43506
(419) 636-4232
Stanley K. Day, Director of Utilities
customers: 4,750
nameplate capacity (kW): gas: 36,800; oil: 2,500
1990 MWh generated: 0
1990 MWh purchased: 191,829
1990 MWh sold: 184,617
1990 revenues: $8,857,000
established 1898

Carey, Village of*
127 N. Vance St.
Carey, Ohio 43316
(419) 396-7681
Roger D. Dean, Electric Distribution Supervisor
customers: 1,710
1990 MWh generated: 0
1990 MWh purchased: 75,720
1990 MWh sold: 72,737
1990 revenues: $3,113,000
established 1909

Celina, City of*
426 W. Market St., Box 297
Celina, Ohio 45822
(419) 586-6464
Thomas A. Schwartz, Director of Public Service
customers: 6,851
1990 MWh generated: 0
1990 MWh purchased: 146,083
1990 MWh sold: 134,353
1990 revenues: $6,633,000
established 1900

Cleveland Public Power*
1201 Lakeside Ave.
Cleveland, Ohio 44114
(216) 664-3922
George S. Pofok, Commissioner
customers: 52,330
nameplate capacity (kW): coal: 160,000; gas: 48,000
1990 MWh generated: 2,805
1990 MWh purchased: 808,874
1990 MWh sold: 676,761
1990 revenues: $49,629,000
established 1905

Clyde Light & Power*
222 N. Main St.
Clyde, Ohio 43410
(419) 547-0575
Dennis Benesh, Superintendent
customers: unavailable
1990 MWh generated: unavailable
1990 MWh purchased: unavailable
1990 MWh sold: unavailable
1990 revenues: unavailable
established 1989

Columbiana, Village of
28 W. Friend St.
Columbiana, Ohio 44408
(216) 482-2173
Albert E. Wardingley, Village Manager
customers: 2,595
1990 MWh generated: 0
1990 MWh purchased: 46,596
1990 MWh sold: 39,013
1990 revenues: $2,438,000

Columbus Division of Electricity†*
910 Dublin Road
Columbus, Ohio 43215
(614) 645-8371
Henry A. Bell, Administrator
customers: 9,859
nameplate capacity (kW): other: 90,000
1990 MWh generated: 351,382
1990 MWh purchased: 277,785
1990 MWh sold: retail: 543,959
wholesale: 2,230
1990 revenues: retail: $27,754,000
wholesale: $19,000
established 1898

Custar, City of*
9063 High St.
Custar, Ohio 43511
(419) 669-3537
Barbara Clink, BPA Clerk
customers: 116
1990 MWh generated: 0
1990 MWh purchased: 1,514
1990 MWh sold: 1,363
1990 revenues: $114,000
established 1892

Cuyahoga Falls, City of*
2550 Bailey Road
Cuyahoga Falls, Ohio 44221
(216) 923-9921
Robert L. Bye, Superintendent
customers: 19,831
1990 MWh generated: 0
1990 MWh purchased: 281,180
1990 MWh sold: 258,408
1990 revenues: $18,375,000
established 1888

Cygnet, Village of*
Box 406
Cygnet, Ohio 43413
(419) 655-2536
Tom Strickland, Superintendent
customers: 255
1990 MWh generated: 0
1990 MWh purchased: 2,669
1990 MWh sold: 2,402
1990 revenues: $156,000
established 1916

Deshler Municipal Utilities*
101 E. Main St.
Deshler, Ohio 43516-1263
(419) 278-1831
Willis Schwiebert, Superintendent
customers: 1,042
1990 MWh generated: 0
1990 MWh purchased: 18,514
1990 MWh sold: 16,401
1990 revenues: $902,000
established 1916

Dover, City of*
303 E. Broadway
Dover, Ohio 44622
(216) 343-7725
David G. Borland, Light Plant Superintendent
customers: 5,948
nameplate capacity (kW): coal: 19,500; oil: 2,700
1990 MWh generated: 66,161
1990 MWh purchased: 98,347
1990 MWh sold: 152,992
1990 revenues: $8,116,000
established 1909

Edgerton, Village of†*
Box 609
Edgerton, Ohio 43517
(419) 298-2912
Dale A. Mathys, Village Administrator
customers: 882
1990 MWh generated: 0
1990 MWh purchased: 23,008

OHIO *(continued)*

1990 MWh sold: 21,384
1990 revenues: $1,123,000
established 1937

Eldorado, City of
200 N. Main St.
Eldorado, Ohio 45321
(513) 273-2032
Steve Ott, President, Board of Public Affairs
customers: 255
1990 MWh generated: 0
1990 MWh purchased: 3,225
1990 MWh sold: 2,765
1990 revenues: $184,000
established 1940

Elmore, Village of*
340 Clinton St.
Elmore, Ohio 43416
(419) 862-3454
Merle Harder, Superintendent
customers: 776
1990 MWh generated: 0
1990 MWh purchased: 8,802
1990 MWh sold: 7,373
1990 revenues: $630,000
established 1911

Galion, City of*
700 Primrose St.
Galion, Ohio 44833
(419) 468-5520
Charles M. Davis, Superintendent
customers: 6,042
1990 MWh generated: 0
1990 MWh purchased: 107,016
1990 MWh sold: 98,885
1990 revenues: $5,460,000
established 1888

Genoa, Village of*
509 Main St.
Genoa, Ohio 43430
(419) 855-8419
Robin Marko, Superintendent, Light Plant
customers: 964
1990 MWh generated: 0
1990 MWh purchased: 12,643
1990 MWh sold: 11,336
1990 revenues: $856,000
established 1925

Georgetown, Village of
301 S. Main St.
Georgetown, Ohio 45121
(513) 378-6395
Milford Fisher, Village Administrator
customers: 1,681
1990 MWh generated: 0
1990 MWh purchased: 31,721
1990 MWh sold: 26,652
1990 revenues: $1,767,000

Glouster, Village of
16 Front St.
Glouster, Ohio 45732
(614) 767-3497
Rita A. Eing, Clerk
customers: 987
1990 MWh generated: 0
1990 MWh purchased: 9,167
1990 MWh sold: 7,993
1990 revenues: $586,000
established 1924

Grafton, Village of*
1009 Chestnut St.
Grafton, Ohio 44044
(216) 926-2401
Frank Boyson, Village Administrator
customers: 912
1990 MWh generated: 0
1990 MWh purchased: 16,512
1990 MWh sold: 14,897
1990 revenues: $945,000

Greenwich, Village of
47 Main St.
Greenwich, Ohio 44837
(419) 752-2441
Mike King, Administrator
customers: 679
1990 MWh generated: 0
1990 MWh purchased: 12,329
1990 MWh sold: 10,711
1990 revenues: $540,000

Hamersville, Village of
Bank and Wooster
Hamersville, Ohio 45130
(513) 379-1745
Debra Ginn, Clerk/Treasurer
customers: 265
1990 MWh generated: 0
1990 MWh purchased: 3,191
1990 MWh sold: 3,191
1990 revenues: $154,000

Hamilton Department of Public Utilities*
20 High St.
Hamilton, Ohio 45011
(513) 868-5908
E. Leon Daggett, Director of Public Utilities
customers: 26,110
nameplate capacity (kW): coal: 85,600; hydro: 71,700; gas: 52,500
1990 MWh generated: 481,554
1990 MWh purchased: 91,074
1990 MWh sold: retail: 467,916
wholesale: 91,999
1990 revenues: retail: $30,043,000
wholesale: $1,844,000
established 1895

Haskins, Village of
100 N. Church St., Box 236
Haskins, Ohio 43525
(419) 823-1911
Frank Enright, Chief Electrician
customers: 266
1990 MWh generated: 0
1990 MWh purchased: 2,598
1990 MWh sold: 2,597
1990 revenues: $190,000
established 1918

Hubbard, City of
820 N. Main
Hubbard, Ohio 44425
(216) 534-3054
Richard Slifko, Utilities Director
customers: 3,379
1990 MWh generated: 0
1990 MWh purchased: 52,992
1990 MWh sold: 47,237
1990 revenues: $3,284,000
established 1919

Hudson Electric Department
27 E. Main St.
Hudson, Ohio 44236
(216) 650-1052
J. W. Rogers, Director of Electric Utilities
customers: 5,071
1990 MWh generated: 0
1990 MWh purchased: 115,146
1990 MWh sold: 105,035
1990 revenues: $7,517,000
established 1911

Jackson, City of*
Box 664
Jackson, Ohio 45640
(614) 286-4415
William McManis, Superintendent
customers: 4,303
1990 MWh generated: 0
1990 MWh purchased: 56,157
1990 MWh sold: 46,784
1990 revenues: $3,173,000
established 1890

Jackson Center, Village of*
Box V, 122 E. Pike St.
Jackson Center, Ohio 45334
(513) 596-5440
W. Michael Dodds, Village Administrator
customers: 629
1990 MWh generated: 0
1990 MWh purchased: 16,445
1990 MWh sold: 15,091
1990 revenues: $870,000
established 1920

Lakeview, Village of*
126 N. Main St.
Lakeview, Ohio 43331
(513) 843-2851
Beatrice E. Schaub, Clerk
customers: 866
1990 MWh generated: 0
1990 MWh purchased: 10,088
1990 MWh sold: 9,009
1990 revenues: $599,000
established 1912

Lebanon, City of†*
50 S. Broadway
Lebanon, Ohio 45036
(513) 932-3060
Robert Newton, Deputy Director/Electric
customers: 5,189
nameplate capacity (kW): gas: 19,790; oil: 17,000
1990 MWh generated: 2,100
1990 MWh purchased: 105,190
1990 MWh sold: 94,810
1990 revenues: $5,488,000
established 1898

Lodi Board of Public Affairs†*
Box 95
Lodi, Ohio 44254
(216) 948-1099
Harold Weitzel, Superintendent
customers: 1,665
1990 MWh generated: 0
1990 MWh purchased: 30,282
1990 MWh sold: 28,519
1990 revenues: $1,603,000
established 1942

Lucas, City of*
101 First Ave., Box 213
Lucas, Ohio 44843
(419) 892-2178
Al Briner, Village Administrator
customers: 333
1990 MWh generated: 0
1990 MWh purchased: 3,966
1990 MWh sold: 3,927
1990 revenues: $240,000

Marshallville, City of
Box 227
Marshallville, Ohio 44645
(216) 855-5985
Marilyn Hardgrove, Clerk
customers: 412
1990 MWh generated: 0
1990 MWh purchased: 5,388
1990 MWh sold: 4,734
1990 revenues: $415,000

Mendon, City of*
E. Market St., Box 167
Mendon, Ohio 45862
(419) 795-7131
Randy Stein, Utility Superintendent
customers: 357
1990 MWh generated: 0
1990 MWh purchased: 4,688
1990 MWh sold: 4,419
1990 revenues: $274,000

Milan, Village of
9 E. Church St.
Milan, Ohio 44846
(4[illegible]9) 499-2133
Larry Doerner, Electrical Superintendent
customers: 690
1990 MWh generated: 0
1990 MWh purchased: 8,904
1990 MWh sold: 7,820
1990 revenues: $520,000
established 1907

Minster, Village of†*
Box 1
Minster, Ohio 45865
(419) 628-2850
Joseph F. Bruns, Superintendent
customers: 1,151
1990 MWh generated: 0
1990 MWh purchased: 65,015
1990 MWh sold: 59,172
1990 revenues: $2,953,000
established 1910

Monroeville, Village of†*
2 S. Main St.
Monroeville, Ohio 44847
(419) 465-4149
Joe Gravenhorst, Superintendent
customers: 836
1990 MWh generated: 0
1990 MWh purchased: 34,000
1990 MWh sold: 32,000
1990 revenues: $1,640,000
established 1906

Montpelier, City of*
211 N. Jonesville St.
Montpelier, Ohio 43543
(419) 485-3693
John H. Bitler, Administrator
customers: 2,072
1990 MWh generated: 0
1990 MWh purchased: 44,655
1990 MWh sold: 38,268
1990 revenues: $2,658,000
established 1893

Napoleon, City of†*
255 Riverview Ave., Box 151
Napoleon, Ohio 43545
(419) 592-4010
Richard Barnes, Electric Distribution Supt.
customers: 5,087
1990 MWh generated: 0
1990 MWh purchased: 134,729
1990 MWh sold: 119,360
1990 revenues: $7,252,000
established 1894

New Bremen, Village of*
214 N. Washington St., Box 27
New Bremen, Ohio 45869
(419) 629-2827
Clarence B. Art, Village Administrator
customers: 1,211
1990 MWh generated: 0
1990 MWh purchased: 51,125
1990 MWh sold: 49,120
1990 revenues: $2,250,000
established 1908

New Knoxville Light Department*
Box 246
New Knoxville, Ohio 45871
(419) 753-2160
Robert Scheblo, Village Administrator
customers: 412
1990 MWh generated: 0
1990 MWh purchased:
from utilities: 3,821
from nonutilities: 1,737
1990 MWh sold: 5,153
1990 revenues: $216,000

---

* Member, American Public Power Association
† Member, Demonstration of Energy-Efficient Developments Program

Newton Falls, City of*
19 N. Canal St.
Newton Falls, Ohio 44444
(216) 872-5990
Dennis Kirkland, Utility Superintendent
customers: 2,231
1990 MWh generated: 0
1990 MWh purchased: 36,798
1990 MWh sold: 35,928
1990 revenues: $2,500,000

Niles, City of
34 W. State St.
Niles, Ohio 44446
(216) 652-2622
John E. Coughlin, Superintendent of Light
customers: 11,414
1990 MWh generated: 0
1990 MWh purchased: 240,048
1990 MWh sold: 214,974
1990 revenues: $13,739,000
established 1898

Oak Harbor Utilities*
146 Church St., Box 232
Oak Harbor, Ohio 43449
(419) 898-3231
Donald Diosi, Village Administrator
customers: 1,321
1990 MWh generated: 0
1990 MWh purchased: 19,677
1990 MWh sold: 18,243
1990 revenues: $1,218,000
established 1914

Oberlin, City of†*
289 S. Professor St.
Oberlin, Ohio 44074
(216) 775-1531
Shashikant Mehta, Director, Light & Power System
customers: 2,831
nameplate capacity (kW): gas: 8,150; oil: 3,700
1990 MWh generated: 2,201
1990 MWh purchased: 78,312
1990 MWh sold: 75,354
1990 revenues: $3,822,000
established 1934

Ohio City, Village of*
Box 248
Ohio City, Ohio 45874
(419) 965-2255
Debby S. Strickler, Clerk
customers: 492
1990 MWh generated: 0
1990 MWh purchased: 6,522
1990 MWh sold: 6,272
1990 revenues: $354,000
established 1930

Orrville, City of†*
207 N. Main St., Box 126
Orrville, Ohio 44667
(216) 684-5012
Robert A. Nichols, Director of Utilities
customers: 5,611
nameplate capacity (kW): coal: 84,500
1990 MWh generated: 297,896
1990 MWh purchased: 82,645
1990 MWh sold: retail: 217,111
wholesale: 107,179
1990 revenues: retail: $11,907,000
wholesale: $3,054,000
established 1917

Painesville, City of
325 Richmond St.
Painesville, Ohio 44077
(216) 352-9301
Lester Nero, City Manager
customers: 9,841
nameplate capacity (kW): coal: 54,500
1990 MWh generated: 133,886
1990 MWh purchased: 47,397
1990 MWh sold: 166,342
1990 revenues: $10,598,000
established 1888

Pemberville, Village of*
115 Main St., Box 109
Pemberville, Ohio 43450
(419) 287-3832
John Lockard, Electric Superintendent
customers: 625
1990 MWh generated: 0
1990 MWh purchased: 14,634
1990 MWh sold: 13,760
1990 revenues: $767,000
established 1914

Pioneer, Village of*
205 S. State St., Box 335
Pioneer, Ohio 43554
(419) 737-2614
Ted Williams, Electric Supervisor
customers: 614
1990 MWh generated: 0
1990 MWh purchased: 17,699
1990 MWh sold: 17,113
1990 revenues: $906,000
established 1912

Piqua Municipal Power System†*
123 Bridge St.
Piqua, Ohio 45356
(513) 778-2077
Richard Miller, Director
customers: 9,692
nameplate capacity (kW): coal: 44,813; oil: 36,320
1990 MWh generated: 117,872
1990 MWh purchased: 128,991
1990 MWh sold: 236,075
1990 revenues: $13,494,000
established 1933

Plymouth, Village of
49 Sandusky St.
Plymouth, Ohio 44865
(419) 687-4331
James C. Root, Village Administrator
customers: 821
1990 MWh generated: 0
1990 MWh purchased: 9,949
1990 MWh sold: 9,404
1990 revenues: $530,000
established 1900

Prospect Corp.*
139 N. Main St., Box 186
Prospect, Ohio 43342
(614) 494-2115
Kenneth R. Blue, Village Administrator
customers: 637
1990 MWh generated: 0
1990 MWh purchased: 8,320
1990 MWh sold: 7,828
1990 revenues: $537,000
established 1937

Republic Board of Public Affairs
219 Washington St., Box 68
Republic, Ohio 44867
(419) 585-5981
Raymond Baker, Board President
customers: 291
1990 MWh generated: 0
1990 MWh purchased: 2,887
1990 MWh sold: 2,701
1990 revenues: $187,000

Ripley, City of
14 N. Third St.
Ripley, Ohio 45167
(513) 392-4377
Betty Schroth, Clerk
customers: 1,080
1990 MWh generated: 0
1990 MWh purchased: 14,991
1990 MWh sold: 12,822
1990 revenues: $854,000

St. Clairsville, City of
100 Market St.
St. Clairsville, Ohio 43950
(614) 695-1410
Dennis Bigler, Director of Public Service
customers: 2,550
1990 MWh generated: 0
1990 MWh purchased: 35,381
1990 MWh sold: 32,488
1990 revenues: $1,773,000

St. Marys, City of†*
101 E. Spring St.
St Marys, Ohio 45885
(419) 394-3303
Mike Weadock, Public Service & Safety Director
customers: 3,743
nameplate capacity (kW): coal: 18,500; oil: 800
1990 MWh generated: 47,492
1990 MWh purchased:
from utilities: 93,066
from nonutilities: 2,339
1990 MWh sold: retail: 132,045
wholesale: 3,821
1990 revenues: retail: $6,232,000
wholesale: $105,000
established 1892

Seville Board of Public Affairs*
44 W. Main St., Box 46
Seville, Ohio 44273
(216) 769-2458
Milton Leohr, Superintendent
customers: 1,312
1990 MWh generated: 0
1990 MWh purchased: 26,649
1990 MWh sold: 22,968
1990 revenues: $1,644,000
established 1914

Shelby Municipal Light Plant*
34 Mansfield Ave.
Shelby, Ohio 44875
(419) 342-2231
Daniel Hubert, Assistant Superintendent
customers: 5,045
nameplate capacity (kW): coal: 37,500; oil: 3,000
1990 MWh generated: 88,057
1990 MWh purchased: 9,979
1990 MWh sold: 93,498
1990 revenues: $4,817,000
established 1890

Shiloh, Village of
12 W. Main St.
Shiloh, Ohio 44878
(419) 896-2011
Wayne Baker, Village Administrator
customers: 295
1990 MWh generated: 0
1990 MWh purchased: 4,707
1990 MWh sold: 3,555
1990 revenues: $222,000

South Vienna Corp.*
16 N. Urbana
South Vienna, Ohio 45369
(513) 568-431
John Miller, President
customers: 197
1990 MWh generated: 0
1990 MWh purchased: 3,675
1990 MWh sold: 3,675
1990 revenues: $259,000

Sycamore, City of*
210 S. Sycamore Ave., Box 297
Sycamore, Ohio 44882
(419) 927-4262
Ralph Maenle, Electrical Superintendent
customers: 497
1990 MWh generated: 0
1990 MWh purchased: 13,800
1990 MWh sold: 10,000
1990 revenues: $600,000
established 1930

Tipp City, City of*
260 S. Garber Drive
Tipp City, Ohio 45371
(513) 667-6305
Milton J. Eichman, Director of Utility Service
customers: 3,081
1990 MWh generated: 0
1990 MWh purchased: 85,000
1990 MWh sold: 80,000
1990 revenues: $4,037,000
established 1897

Tontogany, Village of
Tontogany, Ohio 43565
(419) 823-4465
Ralph Wires, President
customers: 190
1990 MWh generated: 0
1990 MWh purchased: 4,552
1990 MWh sold: 4,295
1990 revenues: $191,000
established 1917

Versailles Utilities†*
177 N. Center St.
Versailles, Ohio 45380
(513) 526-4191
Randy Gump, Superintendent
customers: 1,523
1990 MWh generated: 0
1990 MWh purchased: 37,382
1990 MWh sold: 35,009
1990 revenues: $1,954,000
established 1901

Wadsworth, City of*
145 High St.
Wadsworth, Ohio 44281
(216) 335-1521
William J. Lyren, Director, Public Service
customers: 8,624
1990 MWh generated: 0
1990 MWh purchased: 181,721
1990 MWh sold: 167,814
1990 revenues: $9,589,000
established 1903

Wapakoneta, City of*
102 Perry St.
Wapakoneta, Ohio 45895
(419) 738-7713
Lewis Knoch, Superintendent
customers: 5,135
1990 MWh generated: 0
1990 MWh purchased: 134,739
1990 MWh sold: 130,320
1990 revenues: $5,811,000

Waynesfield, Village of
104 W. Perry St.
Waynesfield, Ohio 45896
(419) 568-1311
Ronald Zimmerman, Superintendent
customers: 415
1990 MWh generated: 0
1990 MWh purchased: 5,911
1990 MWh sold: 4,632
1990 revenues: $324,000
established 1911

Wellington, Village of*
115 Public Square
Wellington, Ohio 44090
(216) 647-3827
Robert A. Dupee, Utilities Director
customers: 1,976
1990 MWh generated: 0
1990 MWh purchased: 50,365
1990 MWh sold: 46,330
1990 revenues: $2,966,000
established 1900

OHIO *(continued)*

Westerville Electric Division*
139 E. Broadway
Westerville, Ohio 43081
(614) 890-8540
Harold M. Evans, Operations Manager
customers: 11,444
1990 MWh generated: 0
1990 MWh purchased: 286,635
1990 MWh sold: 269,511
1990 revenues: $15,407,000
established 1898

Wharton, Village of
117 W. Sandusky St., Box 266
Wharton, Ohio 43359
(419) 458-3431
Rodger Spath, Clerk/Treasurer
customers: 192
1990 MWh generated: 0
1990 MWh purchased: 2,464
1990 MWh sold: 2,138
1990 revenues: $150,000
established 1935

Woodsfield Board of Public Affairs*
203 Roy St.
Woodsfield, Ohio 43793
(614) 472-0884
Ellis Smithberger, Superintendent
customers: 1,496
nameplate capacity (kW): oil: 8,520
1990 MWh generated: 0
1990 MWh purchased: 19,877
1990 MWh sold: 16,433
1990 revenues: $1,123,000

Woodville, Village of*
219 W. Main St.
Woodville, Ohio 43469
(419) 849-3031
James R. Rickard, Village Works Administrator
customers: 860
1990 MWh generated: 0
1990 MWh purchased: 9,348
1990 MWh sold: 8,331
1990 revenues: $524,000

Yellow Springs, Village of
314 Dayton St.
Yellow Springs, Ohio 45387
(513) 767-7202
Kent Bristol, Village Manager
customers: 1,974
1990 MWh generated: 0
1990 MWh purchased: 38,645
1990 MWh sold: 38,645
1990 revenues: $1,912,000

Oklahoma

Altus Municipal Authority*
220 E. Commerce
Altus, Okla. 73521
(405) 477-1950
Joseph Courtney, City Administrator
customers: 8,747
1990 MWh generated: 0
1990 MWh purchased: 142,260
1990 MWh sold: 124,471
1990 revenues: $9,063,000
established 1929

Anadarko Public Works Authority
Box 647
Anadarko, Okla. 73005
(405) 247-2481
City Manager
customers: 2,890
1990 MWh generated: 0
1990 MWh purchased: 60,394
1990 MWh sold: 53,751
1990 revenues: $3,594,000
established 1958

Blackwell, City of*
221 W. Blackwell St., Box 350
Blackwell, Okla. 74631
(405) 363-5490
Joe Dickinson, City Manager
customers: 3,857
1990 MWh generated: 0
1990 MWh purchased: 98,838
1990 MWh sold: retail: 86,922
wholesale: 1,741
1990 revenues: retail: $5,681,000
wholesale: $108,000
established 1913

Braman, Town of
308 Broadway
Braman, Okla. 74632
(405) 385-2169
Betty Evans, Clerk
customers: 196
1990 MWh generated: 0
1990 MWh purchased: 1,742
1990 MWh sold: 1,560
1990 revenues: $162,000
established 1924

Burlington, City of
Box 216
Burlington, Okla. 73722
(405) 431-2550
Ray Thompson, Manager
customers: 106
1990 MWh generated: 0
1990 MWh purchased: 1,628
1990 MWh sold: 1,278
1990 revenues: $124,000
established 1932

Byng Public Works Authority
Box 331-D
Byng, Okla. 74820
(405) 436-2545
Charles Barrick, Mayor
customers: unavailable
1990 MWh generated: unavailable
1990 MWh purchased: unavailable
1990 MWh sold: unavailable
1990 revenues: unavailable
established 1990

Claremore, City of
104 S. Muskogee, Box 249
Claremore, Okla. 74018
(918) 341-2895
Bill Nichols, Electrical Supervisor
customers: 7,703
1990 MWh generated: 0
1990 MWh purchased: 204,535
1990 MWh sold: 189,042
1990 revenues: $11,550,000

Collinsville, City of
Box A
Collinsville, Okla. 74021
(918) 371-2811
Fred Bell, Supervisor, Electric Utility
customers: 1,596
1990 MWh generated: 0
1990 MWh purchased: 26,940
1990 MWh sold: 22,030
1990 revenues: $1,723,000

Comanche, City of*
115 N. Second St.
Comanche, Okla. 73529
(405) 439-8832
Chris Veltema, City Manager
customers: 950
1990 MWh generated: 0
1990 MWh purchased: 13,940
1990 MWh sold: 10,830
1990 revenues: $734,000
established 1912

Copan, City of*
Box 219
Copan, Okla. 74022
(918) 352-4114
Jim Morain, City Manager
customers: 386
1990 MWh generated: 0
1990 MWh purchased: 4,953
1990 MWh sold: 4,227
1990 revenues: $233,000
established 1936

Cordell, City of
101 E. Main St., Box 417
Cordell, Okla. 73632
(405) 832-3825
Jean Smith, Clerk
customers: 1,491
1990 MWh generated: 0
1990 MWh purchased: 25,017
1990 MWh sold: 21,384
1990 revenues: $1,558,000
established 1910

Cushing, City of
Box 311, 100 Judy Adams Blvd.
Cushing, Okla. 74023
(918) 225-2394
Leroy Alsup, City Manager
customers: 4,330
nameplate capacity (kW): oil: 24,600
1990 MWh generated: 19,589
1990 MWh purchased: 52,044
1990 MWh sold: 59,635
1990 revenues: $1,720,000
established 1935

Duncan, City of*
Eighth & Willow Sts., Box 969
Duncan, Okla. 73533
(405) 252-0250
Don Howland, General Manager
customers: 7,546
1990 MWh generated: 0
1990 MWh purchased: 142,401
1990 MWh sold: 125,698
1990 revenues: $7,858,000
established 1921

Edmond Electric*
Box 2970
Edmond, Okla. 73083
(405) 348-8830
C. Max Speegle, City Manager
customers: 19,651
1990 MWh generated: 0
1990 MWh purchased: 431,738
1990 MWh sold: 395,418
1990 revenues: $23,313,000
established 1912

Eldorado, City of*
Box 190
Eldorado, Okla. 73537
(405) 633-2245
Harold Conwell, Utility Superintendent
customers: 455
1990 MWh generated: 0
1990 MWh purchased: 4,940
1990 MWh sold: 3,820
1990 revenues: $266,000

Fairview, City of*
206 E. Broadway, Box 386
Fairview, Okla. 73737
(405) 227-4416
Jim Luckett Jr., City Manager
customers: 1,579
nameplate capacity (kW): oil: 2,458
1990 MWh generated: 0
1990 MWh purchased: 27,034
1990 MWh sold: 23,640
1990 revenues: $1,726,000
established 1908

Fort Supply, Town of
Box 156
Fort Supply, Okla. 73841
(405) 766-3211
June Wilson, Clerk
customers: 205
1990 MWh generated: 0
1990 MWh purchased: 2,388
1990 MWh sold: 2,077
1990 revenues: $183,000

Frederick Public Works Authority*
Box 399
Frederick, Okla. 73542
(405) 335-7551
Wm. Charles Martin, City Manager
customers: 2,557
1990 MWh generated: 0
1990 MWh purchased: 52,888
1990 MWh sold: 49,729
1990 revenues: $3,274,000
established 1917

Geary, City of
515 N. Broadway
Geary, Okla. 73040
(405) 884-5466
Ernest Wm. Allen, Superintendent
customers: 721
1990 MWh generated: 0
1990 MWh purchased: 7,742
1990 MWh sold: 6,943
1990 revenues: $580,000

Goltry Public Works Authority*
Main St., Box 236
Goltry, Okla. 73739
(405) 496-2441
Mary L. Page, Secretary
customers: 172
1990 MWh generated: 0
1990 MWh purchased: 2,200
1990 MWh sold: 1,900
1990 revenues: $143,000
established 1916

Grand River Dam Authority*
707 S. Wilson St., Box 409
Vinita, Okla. 74301
(918) 256-5545
Ron Coker, General Manager/CEO
customers: 52
nameplate capacity (kW): coal: 812,400; hydro: 454,100
1990 MWh generated: 6,160,494
1990 MWh purchased: 40,270
1990 MWh sold: retail: 680,834
wholesale: 3,876,477
1990 revenues: retail: $19,923,000
wholesale: $117,688,000
established 1935

Granite, City of*
420 N. Main St., Box 116
Granite, Okla. 73547
(405) 535-2116
E. J. Hahn, Clerk
customers: 606
1990 MWh generated: 0
1990 MWh purchased: 7,019
1990 MWh sold: 6,072
1990 revenues: $385,000
established 1920

Hominy Public Works Authority*
202 W. Main St., Box 219
Hominy, Okla. 74035
(918) 885-2164
Paul D. O'Keefe, City Manager
customers: 1,576
1990 MWh generated: 0
1990 MWh purchased: 19,100
1990 MWh sold: 15,800
1990 revenues: $1,306,000
established 1936

---

* Member, American Public Power Association
† Member, Demonstration of Energy-Efficient Developments Program

Kaw City, City of
900 Morgan Square E., Box 26
Kaw City, Okla. 74641
(405) 269-2525
Carolyne Goodwin, Clerk
customers: 184
1990 MWh generated: 0
1990 MWh purchased: 1,829
1990 MWh sold: 1,432
1990 revenues: $129,000

Kingfisher Public Works Authority*
301 N. Main St.
Kingfisher, Okla. 73750
(405) 375-3705
Reuben Pulis, City Manager
customers: 2,122
nameplate capacity (kW): gas: 9,100
1990 MWh generated: 615
1990 MWh purchased: 40,571
1990 MWh sold: 35,015
1990 revenues: $2,525,000
established 1900

Laverne, Town of*
115 N. Ohio St., Box 430
Laverne, Okla. 73848
(405) 947-5515
Jay D. McCoy, Electrical Superintendent
customers: 774
1990 MWh generated: 0
1990 MWh purchased: 9,810
1990 MWh sold: 7,933
1990 revenues: $668,000

Lexington, City of*
Box 1180
Lexington, Okla. 73051
(405) 527-6123
Mike Coker, Supervisor
customers: 792
1990 MWh generated: 0
1990 MWh purchased: 11,144
1990 MWh sold: 9,424
1990 revenues: $575,000
established 1951

Lindsay, City of
Box 708
Lindsay, Okla. 73052
(405) 756-2019
Benny Dutton, Director of Public Works
customers: 1,459
nameplate capacity (kW): gas: 14,451
1990 MWh generated: 48
1990 MWh purchased: 23,533
1990 MWh sold: 18,616
1990 revenues: $1,412,000
established 1915

Mangum, City of*
201 N. Oklahoma St.
Mangum, Okla. 73554
(405) 782-2256
Louise Price, City Manager
customers: 2,013
nameplate capacity (kW): gas: 7,635
1990 MWh generated: 581
1990 MWh purchased:
  from utilities: 24,633
  from nonutilities: 182
1990 MWh sold: 21,373
1990 revenues: $1,725,000
established 1929

Manitou Light Department
Box 8
Manitou, Okla. 73555
(405) 397-2241
Genevieve Meadows, City Clerk
customers: 124
1990 MWh generated: 0
1990 MWh purchased: 1,258
1990 MWh sold: 1,198
1990 revenues: $87,000

Mannford, Town of
Box 327
Mannford, Okla. 74044
(918) 865-4314
Helen Freeman, Office Manager
customers: 837
1990 MWh generated: 0
1990 MWh purchased: 21,550
1990 MWh sold: 18,185
1990 revenues: $1,221,000

Marlow, City of*
115 N. Second St., Box 113
Marlow, Okla. 73055
(405) 658-5401
Brant Ball, City Manager
customers: 2,866
1990 MWh generated: 0
1990 MWh purchased: 30,644
1990 MWh sold: 29,343
1990 revenues: $2,065,000

Miami, City of
129 Fifth Ave., N.W., Box 1288
Miami, Okla. 74355
(918) 542-6685
Bob Sherwood, General Manager
customers: 6,284
1990 MWh generated: 0
1990 MWh purchased: 127,501
1990 MWh sold: 118,823
1990 revenues: $6,536,000
established 1910

Mooreland, City of
Box 157
Mooreland, Okla. 73852
(405) 994-5924
Wilbur Ramey, Superintendent
customers: 657
1990 MWh generated: 0
1990 MWh purchased: 7,569
1990 MWh sold: 7,115
1990 revenues: $693,000
established 1908

Newkirk, City of*
106 W. Seventh, Box 469
Newkirk, Okla. 74647
(405) 362-2117
David Haynes, City Manager
customers: 1,180
1990 MWh generated: 0
1990 MWh purchased: 16,051
1990 MWh sold: 13,532
1990 revenues: $1,343,000
established 1918

Okeene Light & Water Department*
213 N. Main St., Drawer F
Okeene, Okla. 73763
(405) 822-3031
Willadean Hendricks, City Clerk
customers: 741
1990 MWh generated: 0
1990 MWh purchased: 14,885
1990 MWh sold: 12,417
1990 revenues: $814,000

Oklahoma Municipal Power Authority*
2300 E. 2nd St., Box 1960
Edmond, Okla. 73083-1960
(405) 340-5047
Harry Dawson, General Manager
customers: wholesale only
nameplate capacity (kW): coal: 94,680
1990 MWh generated: 682,885
1990 MWh purchased: 836,300
1990 MWh sold: wholesale: 1,481,846
1990 revenues: wholesale: $65,991,000
established 1981
(see expanded joint action agency section, page 140)

Olustee, Town of*
Box 330
Olustee, Okla. 73560
(405) 648-2288
B. Yvonne Bullard, City Clerk/Treasurer
customers: 300
1990 MWh generated: 0
1990 MWh purchased: 3,308
1990 MWh sold: 2,737
1990 revenues: $214,000
established 1923

Orlando, Town of
Box 27
Orlando, Okla. 73073
(405) 455-2523
Linda G. Adkins, Clerk-Treasurer
customers: 90
1990 MWh generated: 0
1990 MWh purchased: 1,164
1990 MWh sold: 986
1990 revenues: $84,000

Pawhuska, City of*
Box 539
Pawhuska, Okla. 74056
(918) 287-3260
Tim Burd, Utility Superintendent
customers: 1,750
nameplate capacity (kW): oil: 9,000
1990 MWh generated: 32
1990 MWh purchased: 33,067
1990 MWh sold: 27,257
1990 revenues: $2,183,000
established 1907

Pawnee, City of
513 Illinois St.
Pawnee, Okla. 74058
(918) 762-2658
Alford J. Majors, Mayor
customers: 1,378
1990 MWh generated: 0
1990 MWh purchased: 16,000
1990 MWh sold: 14,000
1990 revenues: $1,052,000

Perry, City of
624 Delaware, Drawer 798
Perry, Okla. 73077
(405) 336-4241
Robert Bornt, Manager of Utility
customers: 2,904
1990 MWh generated: 0
1990 MWh purchased: 64,220
1990 MWh sold: 56,460
1990 revenues: $4,380,000
established 1922

Ponca City, City of*
Box 1450
Ponca City, Okla. 74602
(405) 767-0405
Charles L. Silvy, Director of Utilities
customers: 15,706
nameplate capacity (kW): gas: 95,500; oil: 5,000
1990 MWh generated: 33,062
1990 MWh purchased: 263,855
1990 MWh sold: 272,318
1990 revenues: $18,595,000
established 1914

Pond Creek Water & Light Department*
Box 45
Pond Creek, Okla. 73766
(405) 532-6327
Richard Dillon, Superintendent
customers: 536
1990 MWh generated: 0
1990 MWh purchased: 7,135
1990 MWh sold: 6,722
1990 revenues: $538,000

Prague Public Works Authority*
116 N. Broadway
Prague, Okla. 74864
(405) 567-2279
Lavon Hightower, City Manager
customers: 1,128
1990 MWh generated: 0
1990 MWh purchased: 25,006
1990 MWh sold: 24,465
1990 revenues: $1,103,000
established 1902

Pryor, City of
6 N. Adair, Box 249
Pryor, Okla. 74362
(918) 825-2100
Bob Pierson, General Manager
customers: 4,115
1990 MWh generated: 0
1990 MWh purchased: 73,966
1990 MWh sold: 70,016
1990 revenues: $4,061,000
established 1951

Purcell, City of
230 W. Main St.
Purcell, Okla. 73080
(405) 527-6561
Robert Collings, City Manager
customers: 2,167
1990 MWh generated: 0
1990 MWh purchased: 37,000
1990 MWh sold: 37,000
1990 revenues: $2,301,000

Ryan, Town of*
Box 489
Ryan, Okla. 73565
(405) 757-2277
Jeanne Fuller, Clerk
customers: 584
1990 MWh generated: 0
1990 MWh purchased: 6,066
1990 MWh sold: 4,868
1990 revenues: $377,000

Sallisaw, City of
111 N. Elm St., Box C
Sallisaw, Okla. 74955
(918) 775-6241
E. W. Rogers, Clerk
customers: 3,601
1990 MWh generated: 0
1990 MWh purchased: 82,600
1990 MWh sold: 81,000
1990 revenues: $4,117,000
established 1914

Skiatook, City of
111 N. Broadway
Skiatook, Okla. 74070
(918) 396-2797
Lee Wert, Town Coordinator
customers: 2,173
1990 MWh generated: 0
1990 MWh purchased: 42,566
1990 MWh sold: 32,607
1990 revenues: $2,089,000
established 1951

South Coffeyville, City of
207 W. Broadway St., Box 100
South Coffeyville, Okla. 74072
(918) 255-6045
Kenneth Garner, Utility Director
customers: 460
1990 MWh generated: 0
1990 MWh purchased: 4,362
1990 MWh sold: 3,900
1990 revenues: $316,000

Spiro, Town of*
131 S. Main St.
Spiro, Okla. 74959
(918) 962-2477
Rex Butler, Lineman
customers: 1,047
1990 MWh generated: 0
1990 MWh purchased: 15,416
1990 MWh sold: 13,104
1990 revenues: $847,000

OKLAHOMA *(continued)*

Stillwater Utilities Authority*
Box 1449
Stillwater, Okla. 74076
(405) 372-0025
Michael Herron, Electric Utility Director
customers: 14,543
nameplate capacity (kW): gas: 22,700
1990 MWh generated: 0
1990 MWh purchased: 383,864
1990 MWh sold: 350,525
1990 revenues: $19,404,000
established 1901

Stilwell Utility Department
9 W. Maple St.
Stilwell, Okla. 74960
(918) 696-3400
Larry Eagleton, Superintendent
customers: 1,452
1990 MWh generated: 0
1990 MWh purchased: 48,065
1990 MWh sold: 38,807
1990 revenues: $2,318,000
established 1952

Stroud, City of
Drawer K
Stroud, Okla. 74079
(918) 968-2571
Jessie Wright, Billing Clerk
customers: 1,334
1990 MWh generated: 0
1990 MWh purchased: 21,953
1990 MWh sold: 18,872
1990 revenues: $1,267,000
established 1927

Tahlequah Public Works Authority
101 N. College Ave., Box 29
Tahlequah, Okla. 74464
(918) 456-2564
Charles C. Edwards, General Manager
customers: 4,955
1990 MWh generated: 0
1990 MWh purchased: 106,743
1990 MWh sold: 93,042
1990 revenues: $6,032,000
established 1935

Tecumseh Utility Authority*
114 N. Broadway
Tecumseh, Okla. 74873
(405) 598-2189
Randy Swinson, City Manager
customers: 2,036
1990 MWh generated: 0
1990 MWh purchased: 27,359
1990 MWh sold: 25,736
1990 revenues: $1,886,000
established 1923

Tonkawa, City of*
117 S. Seventh St.
Tonkawa, Okla. 74653
(405) 628-2508
Robert B. Johnston, City Manager
customers: 1,789
1990 MWh generated: 0
1990 MWh purchased: 26,576
1990 MWh sold: 23,161
1990 revenues: $1,767,000
established 1925

Wagoner Public Works Authority
231 Church St.
Wagoner, Okla. 74467
(918) 485-0554
Alva M. Smith, Supervisor
customers: 3,370
1990 MWh generated: 0
1990 MWh purchased: 81,959
1990 MWh sold: 69,568
1990 revenues: $4,286,000

Walters, City of*
129 E. Colorado St.
Walters, Okla. 73572
(405) 875-3337
Buddy Veltema, City Manager
customers: 1,341
1990 MWh generated: 0
1990 MWh purchased: 18,347
1990 MWh sold: 15,551
1990 revenues: $1,077,000
established 1923

Watonga, City of
Wiegel St., Box 280
Watonga, Okla. 73772
(405) 623-7354
Kenneth Marshall, Superintendent
customers: 1,689
1990 MWh generated: 0
1990 MWh purchased: 26,381
1990 MWh sold: 22,443
1990 revenues: $1,797,000
established 1907

Waynoka, City of*
201 E. Cecil St.
Waynoka, Okla. 73860
(405) 824-2261
Marvin Miller, Mayor
customers: 739
1990 MWh generated: 0
1990 MWh purchased: 8,000
1990 MWh sold: 7,000
1990 revenues: $657,000
established 1962

Wetumka Municipal Authority*
202 N. Main
Wetumka, Okla. 74883
(405) 452-3253
Donald R. Kardokus, City Manager
customers: 800
1990 MWh generated: 0
1990 MWh purchased: 10,314
1990 MWh sold: 8,922
1990 revenues: $673,000
established 1925

Wynnewood City Utilities Authority*
Box 219
Wynnewood, Okla. 73098
(405) 665-4141
Don Harmon, Public Works Director
customers: 1,227
1990 MWh generated: 0
1990 MWh purchased: 16,585
1990 MWh sold: 14,994
1990 revenues: $1,178,000

Yale, City of*
209 N. Main
Yale, Okla. 74085
(918) 387-2406
Carl W. Hensley, City Manager
customers: 725
1990 MWh generated: 0
1990 MWh purchased: 9,124
1990 MWh sold: 7,427
1990 revenues: $584,000

Oregon

Ashland, City of*
20 E. Main St.
Ashland, Ore. 97520
(503) 482-3211
Brian L. Almquist, City Administrator
customers: 7,546
nameplate capacity (kW): unavailable
1990 MWh generated: 2,545
1990 MWh purchased: 153,946
1990 MWh sold: retail: 140,981
wholesale: 1,539
1990 revenues: retail: $5,846,000
wholesale: $45,000
established 1909

Bandon, City of*
555 Highway 101, Box 67
Bandon, Ore. 97411
(503) 347-2437
Ben McMakin, City Manager
customers: 2,571
1990 MWh generated: 0
1990 MWh purchased: 55,888
1990 MWh sold: 52,640
1990 revenues: $2,403,000
established 1921

Canby Utility Board
154 N.W. First St., Box 1070
Canby, Ore. 97013
(503) 266-1156
Don Godard, Manager
customers: 3,731
1990 MWh generated: 0
1990 MWh purchased: 116,022
1990 MWh sold: 110,624
1990 revenues: $4,048,000
established 1922

Cascade Locks, City of*
Box 308
Cascade Locks, Ore. 97014
(503) 374-8484
George R. Lewis, City Administrator
customers: 543
1990 MWh generated: 0
1990 MWh purchased: 18,271
1990 MWh sold: 17,260
1990 revenues: $759,000
established 1939

Central Lincoln People's Utility District*
2129 N. Coast Highway, Box 1126
Newport, Ore. 97365
(503) 265-3211
Roland Nuetzman, General Manager
customers: 27,925
1990 MWh generated: 0
1990 MWh purchased: 1,416,296
1990 MWh sold: 1,355,854
1990 revenues: $44,772,000
established 1943

Clatskanie People's Utility District*
469 Nehalem
Clatskanie, Ore. 97016
(503) 728-2163
Liston C. Darby, General Manager
customers: 3,741
1990 MWh generated: 0
1990 MWh purchased: 893,624
1990 MWh sold: 888,515
1990 revenues: $21,690,000
established 1940

Columbia River People's Utility District*
64001 Columbia River Highway, Box 1193
St. Helens, Ore. 97051
(503) 397-1844
Fergus Pilon, General Manager
customers: 7,451
1990 MWh generated: 0
1990 MWh purchased:
from utilities: 271,883
from nonutilities: 3
1990 MWh sold: 264,717
1990 revenues: $10,870,000
established 1984

Drain, City of
129 W. C Ave.
Drain, Ore. 97435
(503) 836-2417
Bill Ewing, City Administrator
customers: 613
1990 MWh generated: 0
1990 MWh purchased: 29,122
1990 MWh sold: 28,299
1990 revenues: $1,139,000
established 1940

Emerald People's Utility District†*
33733 Seavey Loop Road
Eugene, Ore. 97405
(503) 746-1583
Jeffrey Shields, General Manager
customers: 14,326
1990 MWh generated: 0
1990 MWh purchased:
from utilities: 387,325
from nonutilities: 138
1990 MWh sold: retail: 365,419
wholesale: 111
1990 revenues: retail: $17,500,000
wholesale: $3,000
established 1983

Eugene Water & Electric Board†*
500 E. Fourth Ave., Box 10148
Eugene, Ore. 97440
(503) 484-2411
Randy Berggren, General Manager
customers: 66,485
nameplate capacity (kW): nuclear: 364,800; hydro: 111,465; other: 11,500
1990 MWh generated: 419,533
1990 MWh purchased:
from utilities: 2,196,947
from nonutilities: 94,850
1990 MWh sold: retail: 2,252,399
wholesale: 205,006
1990 revenues: retail: $77,444,000
wholesale: $4,137,000
established 1911

Forest Grove, City of†*
1818 B St., Box 326
Forest Grove, Ore. 97116
(503) 359-3250
Doug Sleeth, Director of Light & Power
customers: 6,389
1990 MWh generated: 0
1990 MWh purchased: 204,015
1990 MWh sold: 194,637
1990 revenues: $5,605,000
established 1896

McMinnville Water & Light Department†*
855 Marsh Lane, Box 638
McMinnville, Ore. 97128-0638
(503) 472-6158
John L. Harshman, General Manager
customers: 10,460
1990 MWh generated: 0
1990 MWh purchased: 454,284
1990 MWh sold: 445,638
1990 revenues: $12,706,000
established 1889

Milton-Freewater, City of*
722 S. Main St., Box 6
Milton-Freewater, Ore. 97862
(503) 938-5531
James A. Swayne, City Manager
customers: 4,337
1990 MWh generated: 0
1990 MWh purchased: 115,000
1990 MWh sold: 113,000
1990 revenues: $3,282,000
established 1891

Monmouth Power & Light†*
151 W. Main St.
Monmouth, Ore. 97361
(503) 838-0722
Stan Kenyon, City Manager
customers: 2,610
1990 MWh generated: 0
1990 MWh purchased: 56,092

---

* Member, American Public Power Association
† Member, Demonstration of Energy-Efficient Developments Program

1990 MWh sold: 53,727
1990 revenues: $1,839,000
established 1940

Northern Wasco County People's Utility District†*
401 Court St., Box 621
The Dalles, Ore. 97058
(503) 296-2226
Harold E. Haake, Manager
customers: 8,414
1990 MWh generated: 0
1990 MWh purchased: 204,703
1990 MWh sold: 198,520
1990 revenues: $7,905,000
established 1939

Springfield Utility Board†*
250 N. A St., Box 300
Springfield, Ore. 97477
(503) 746-8451
Steve L. Loveland, General Manager
customers: 21,828
1990 MWh generated: 0
1990 MWh purchased: 768,042
1990 MWh sold: 736,254
1990 revenues: $23,872,000
established 1950

Tillamook People's Utility District†*
1115 Pacific Ave.
Tillamook, Ore. 97141-0433
(503) 842-2535
Ronald L. Saville, General Manager
customers: 15,253
1990 MWh generated: 0
1990 MWh purchased:
  from utilities: 340,717
  from nonutilities: 620
1990 MWh sold: 318,969
1990 revenues: $12,837,000
established 1932

Pennsylvania

Berlin, Borough of
700 North St., Box 115
Berlin, Pa. 15530
(814) 267-3837
Kerry B. Claycomb, Executive Secretary
customers: 930
1990 MWh generated: 0
1990 MWh purchased: 16,402
1990 MWh sold: 15,038
1990 revenues: $1,038,000
established 1919

Blakely, Borough of
1439 Main St.
Peckville, Pa. 18452
(717) 383-3340
Harold J. McCusker Jr., Borough Manager
customers: 3,146
1990 MWh generated: 0
1990 MWh purchased: 32,425
1990 MWh sold: 28,953
1990 revenues: $2,910,000
established 1895

Catawissa, Borough of
118 N. Third St., Box 44
Catawissa, Pa. 17820
(707) 356-2561
Theodore E. Long, President
customers: 820
1990 MWh generated: 0
1990 MWh purchased: 11,556
1990 MWh sold: 10,538
1990 revenues: $642,000
established 1928

Chambersburg, Borough of*
100 S. Second St.
Chambersburg, Pa. 17201
(717) 264-5151
Julio D. Lecuona, Manager
customers: 9,894
nameplate capacity (kW): unavailable
1990 MWh generated: 526
1990 MWh purchased: 216,759
1990 MWh sold: 210,381
1990 revenues: $10,284,000
established 1893

Duncannon, Borough of
428 N. High St., Box 9
Duncannon, Pa. 17020
(717) 834-4311
Richard E. Tremblay, Borough Manager
customers: 841
1990 MWh generated: 0
1990 MWh purchased: 8,211
1990 MWh sold: 7,899
1990 revenues: $596,000
established 1898

East Conemaugh, Borough of
355 First St.
East Conemaugh, Pa. 15909
(814) 539-0193
Bernard Waltz, Superintendent
customers: 761
1990 MWh generated: 0
1990 MWh purchased: 5,514
1990 MWh sold: 4,931
1990 revenues: $435,000
established 1900

Ellwood City, Borough of
525 Lawrence Ave.
Ellwood City, Pa. 16117
(412) 758-5576
Mary Ann Fleo, Borough Secretary
customers: 4,130
1990 MWh generated: 0
1990 MWh purchased: 46,544
1990 MWh sold: 41,568
1990 revenues: $3,717,000
established 1901

Ephrata, Borough of†*
114 E. Main St.
Ephrata, Pa. 17522
(717) 733-1277
L. Victor Dickinson, Borough Manager
customers: 5,616
1990 MWh generated: 0
1990 MWh purchased: 116,179
1990 MWh sold: 108,084
1990 revenues: $7,839,000
established 1902

Girard, Borough of
34 Main Street W.
Girard, Pa. 16417
(814) 774-3012
R. C. Higley, Borough Manager
customers: 1,140
1990 MWh generated: 0
1990 MWh purchased: 29,078
1990 MWh sold: 25,904
1990 revenues: $1,939,000
established 1900

Goldsboro, Borough of
53 N. York St., Box 14
Etters, Pa. 17319
(717) 938-3456
Lee Fishel, Borough Manager
customers: 268
1990 MWh generated: 0
1990 MWh purchased: 2,138
1990 MWh sold: 2,018
1990 revenues: $193,000
established 1913

Grove City, Borough of*
315 Park St.
Grove City, Pa. 16127
(412) 458-7070
Donald W. Mcintire, Electric Department Superintendent
customers: 2,849
1990 MWh generated: 0
1990 MWh purchased: 46,050
1990 MWh sold: 43,497
1990 revenues: $3,251,000
established 1908

Hatfield, Borough of*
Box 190
Hatfield, Pa. 19440
(215) 855-0781
Mark A. Curfman, Manager
customers: 1,297
1990 MWh generated: 0
1990 MWh purchased: 16,140
1990 MWh sold: 14,200
1990 revenues: $1,359,000
established 1930

Hooversville Boro Electric Light Co.
Box 176
Hooversville, Pa. 15936
(814) 798-8001
Judith Shaffer, Borough Secretary
customers: 380
1990 MWh generated: 0
1990 MWh purchased: 3,331
1990 MWh sold: 3,045
1990 revenues: $244,000
established 1919

Kutztown, Borough of
45 Railroad St.
Kutztown, Pa. 19530
(215) 683-6131
Keith A. Hill, Manager/Secretary
customers: 2,106
1990 MWh generated: 0
1990 MWh purchased: 47,100
1990 MWh sold: 44,626
1990 revenues: $3,880,000
established 1904

Lansdale, Boroug[illegible]*
1 Vine St.
Lansdale, Pa. 19446
(215) 368-1691
Jacob I. Ziegler, Electric Superintendent
customers: 7,302
1990 MWh generated: 0
1990 MWh purchased: 125,090
1990 MWh sold: 119,486
1990 revenues: $8,884,000
established 1902

Lehighton, Borough of
Box 29
Lehighton, Pa. 18235
(215) 377-4002
Miles W. Haberman, Borough Manager
customers: 2,975
1990 MWh generated: 0
1990 MWh purchased: 43,833
1990 MWh sold: 38,348
1990 revenues: $3,285,000
established 1940

Lewisberry, Borough of
Box 186
Lewisberry, Pa. 17339
(717) 938-1107
Lewis J. Mummert Jr., Chairman, Electric Commission
customers: 142
1990 MWh generated: 0
1990 MWh purchased: 1,780
1990 MWh sold: 1,490
1990 revenues: $133,000

Middletown, Borough of*
60 W. Emaus St.
Middletown, Pa. 17057
(717) 948-3042
Bruce Hamer, Borough Manager
customers: 3,645
1990 MWh generated: 0
1990 MWh purchased: 75,956
1990 MWh sold: 73,750
1990 revenues: $2,207,000
established 1906

Mifflinburg, Borough of
333 Chestnut St.
Mifflinburg, Pa. 17844
(717) 966-1013
George M. Steese, Borough Manager
customers: 1,655
1990 MWh generated: 0
1990 MWh purchased: 40,770
1990 MWh sold: 36,640
1990 revenues: $2,772,000
established 1925

Mont Alto, Borough of
Box 427
Mont Alto, Pa. 17237
(717) 749-5808
Lorraine L. Bumbaugh, Borough Secretary/Treasurer
customers: 507
1990 MWh generated: 0
1990 MWh purchased: 5,782
1990 MWh sold: 5,298
1990 revenues: $262,000
established 1917

New Wilmington, Borough of
140 W. Neshannock Ave.
New Wilmington, Pa. 16142
(412) 946-8167
Edward Garrett, Borough Superintendent
customers: 609
1990 MWh generated: 0
1990 MWh purchased: 16,133
1990 MWh sold: 16,133
1990 revenues: $1,257,000

Olyphant, Borough of
113 Willow St.
Olyphant, Pa. 18447
(717) 489-2135
Michael S. Ferke, Manager
customers: 2,241
1990 MWh generated: 0
1990 MWh purchased: 21,154
1990 MWh sold: 18,718
1990 revenues: $1,878,000
established 1891

Perkasie, Borough of*
311 S. Ninth St., Box 275
Perkasie, Pa. 18944
(215) 257-5065
Paul A. Leonard, Borough Manager
customers: 3,363
1990 MWh generated: 0
1990 MWh purchased: 46,560
1990 MWh sold: 43,630
1990 revenues: $3,698,000
established 1900

Pitcairn Municipal Light System*
582 Sixth St.
Pitcairn, Pa. 15140
(412) 372-6500
George H. Myers, Manager
customers: 1,977
1990 MWh generated: 0
1990 MWh purchased: 11,872
1990 MWh sold: 10,595
1990 revenues: $1,125,000
established 1901

Quakertown, Borough of
15-35 N. Second St.
Quakertown, Pa. 18951
(215) 536-5001
David L. Woglom, Manager/Secretary
customers: 4,107
1990 MWh generated: 0
1990 MWh purchased: 93,413
1990 MWh sold: 85,194
1990 revenues: $5,995,000
established 1904

PENNSYLVANIA *(continued)*

Royalton, Borough of
Burd & Dock Sts.
Royalton, Pa. 17057
(717) 944-4831
Bonita Young, Borough Secretary/Treasurer
customers: 422
1990 MWh generated: 0
1990 MWh purchased: 2,976
1990 MWh sold: 2,718
1990 revenues: $236,000
established 1930

Saint Clair Electric Light Department
39 N. Second St., Box 25
St. Clair, Pa. 17970
(717) 429-0640
Donald C. Hosler, Borough Superintendent
customers: 2,070
1990 MWh generated: 0
1990 MWh purchased: 13,300
1990 MWh sold: 13,300
1990 revenues: $1,178,000
established 1892

Schuylkill Haven, Borough of
12 W. Main St.
Schuylkill Haven, Pa. 17972
(717) 385-2841
Douglas R. Satterfield, Borough Manager
customers: 2,829
1990 MWh generated: 0
1990 MWh purchased: 51,355
1990 MWh sold: 47,185
1990 revenues: $3,339,000
established 1840

Smethport, Borough of
412 W. Water St.
Smethport, Pa. 16749
(814) 887-5815
William H. Covert Jr., Superintendent
customers: 1,033
1990 MWh generated: 0
1990 MWh purchased: 12,318
1990 MWh sold: 11,067
1990 revenues: $876,000

Summerhill, Borough of
Box 289
Summerhill, Pa. 15958
(814) 495-5610
Charles L. Tremel, President
customers: 291
1990 MWh generated: 0
1990 MWh purchased: 3,023
1990 MWh sold: 2,821
1990 revenues: $198,000

Wampum, Borough of
Box 65
Wampum, Pa. 16157
(412) 535-8241
Milton Cody, Council President
customers: 368
1990 MWh generated: 0
1990 MWh purchased: 3,343
1990 MWh sold: 3,007
1990 revenues: $269,000
established 1910

Watsontown, Borough of
4th & Main Sts., Box 273
Watsontown, Pa. 17777
(717) 538-1000
Samuel R. Klapp, Borough Manager
customers: 966
1990 MWh generated: 0
1990 MWh purchased: 16,490
1990 MWh sold: 15,655
1990 revenues: $1,389,000

Weatherly, Borough of*
10 Wilbur St.
Weatherly, Pa. 18255
(717) 427-8640
Beverly E. Knepper, Borough Manager
customers: 990
1990 MWh generated: 0
1990 MWh purchased: 20,887
1990 MWh sold: 20,887
1990 revenues: $1,497,000

Zelienople, Borough of
111 W. New Castle St.
Zelienople, Pa. 16063
(412) 452-6610
Dennis Dambaugh, Superintendent
customers: 2,047
1990 MWh generated: 0
1990 MWh purchased: 24,176
1990 MWh sold: 21,501
1990 revenues: $1,869,000

Puerto Rico

Puerto Rico Electric Power Authority*
1110 Ponce de Leon Ave., Box 364267
San Juan, Puerto Rico 00936-4267
(809) 725-4232
Jose A. Del Valle, Executive Director
customers: 1,160,017
nameplate capacity (kW): hydro: 96,840; oil: 4,103,250
1990 MWh generated: 14,377,457
1990 MWh purchased: 0
1990 MWh sold: 12,916,209
1990 revenues: $1,294,507,000
established 1941

Rhode Island

Pascoag Fire District
55 S. Main St., Box 107
Pascoag, R.I. 02859
(401) 568-6222
Robert F. Gautreau II, General Manager
customers: 3,826
1990 MWh generated: 0
1990 MWh purchased: 34,846
1990 MWh sold: 31,548
1990 revenues: $3,814,000
established 1887

South Carolina

Abbeville Water & Electric Plant*
Box 639
Abbeville, S.C. 29620
(803) 459-5058
R.M. Hall, Utilities Director
customers: 3,254
nameplate capacity (kW): hydro: 2,600; oil: 1,100
1990 MWh generated: 8,706
1990 MWh purchased: 45,331
1990 MWh sold: 45,499
1990 revenues: $3,597,000
established 1905

Bamberg Board of Public Works
619 N. Main St., Box 300
Bamberg, S.C. 29003
(803) 245-5128
Bruce Ellis, Manager
customers: 1,691
1990 MWh generated: 0
1990 MWh purchased: 42,558
1990 MWh sold: 38,442
1990 revenues: $2,303,000
established 1905

Bennettsville, City of
501 E. Main St., Box 1036
Bennettsville, S.C. 29512
(803) 479-9001
Charles B. Litchfield, Director of Utilities
customers: 4,772
1990 MWh generated: 0
1990 MWh purchased: 86,992
1990 MWh sold: 79,040
1990 revenues: $6,869,000
established 1903

Camden, City of*
Box 7002
Camden, S.C. 29020-7002
(803) 432-2421
Nick Stegall, Director of Utilities
customers: 9,260
1990 MWh generated: 0
1990 MWh purchased: 151,442
1990 MWh sold: 136,439
1990 revenues: $11,146,000
established 1947

Clinton, City of*
404 N. Broad St., Drawer 748
Clinton, S.C. 29325
(803) 833-7505
Steven L. Harrell, City Manager
customers: 4,175
1990 MWh generated: 0
1990 MWh purchased: 122,358
1990 MWh sold: 117,540
1990 revenues: $7,260,000
established 1907

Due West, Town of
Box 278
Due West, S.C. 29639
(803) 379-2385
James A. Bruce, Superintendent
customers: 334
1990 MWh generated: 0
1990 MWh purchased: 9,753
1990 MWh sold: 7,465
1990 revenues: $592,000
established 1920

Easley Combined Utility System*
202 N. First St., Box 619
Easley, S.C. 29641
(803) 859-4013
Richard S. Hale, Manager
customers: 9,597
1990 MWh generated: 0
1990 MWh purchased: 202,180
1990 MWh sold: 181,544
1990 revenues: $11,890,000
established 1910

Gaffney Board of Public Works*
210 E. Frederick St., Box 64
Gaffney, S.C. 29342
(803) 487-7171
H. F. "Dick" Crater, General Manager
customers: 8,935
1990 MWh generated: 0
1990 MWh purchased: 180,000
1990 MWh sold: 159,000
1990 revenues: $9,744,000
established 1907

Georgetown, City of*
Box 1146
Georgetown, S.C. 29442
(803) 546-5632
Gregory P. Dietterick, Manager of Electric Utility
customers: 4,600
1990 MWh generated: 0
1990 MWh purchased: 126,000
1990 MWh sold: 114,000
1990 revenues: $6,000,000
established 1921

Greenwood, City of*
Box 549
Greenwood, S.C. 29648
(803) 942-8100
Steve D. Reeves, Manager
customers: 10,014
1990 MWh generated: 0
1990 MWh purchased: 225,059
1990 MWh sold: 215,679
1990 revenues: $11,529,000
established 1896

Greer Commission of Public Works†*
301 McCall St., Box 216
Greer, S.C. 29652-0216
(803) 848-5500
H. Jerry Balding, General Manager
customers: 9,324
1990 MWh generated: 0
1990 MWh purchased: 153,440
1990 MWh sold: 145,375
1990 revenues: $9,091,000
established 1914

Laurens Commission of Public Works*
212 Church St., Box 349
Laurens, S.C. 29360
(803) 984-0481
Coleman Smoak Jr., Manager
customers: 5,072
1990 MWh generated: 0
1990 MWh purchased: 88,830
1990 MWh sold: 78,449
1990 revenues: $5,635,000
established 1922

McCormick, Town of
Box 656
McCormick, S.C. 29835
(803) 465-2224
Benjamin M. Lewis, Superintendent
customers: 978
1990 MWh generated: 0
1990 MWh purchased: 19,082
1990 MWh sold: 17,215
1990 revenues: $966,000
established 1926

Newberry, City of*
Boyce St., Drawer 538
Newberry, S.C. 29108
(803) 321-1018
Joel D. Ledbetter, Utilities Director
customers: 4,657
1990 MWh generated: 0
1990 MWh purchased: 135,187
1990 MWh sold: 125,950
1990 revenues: $7,807,000
established 1923

Orangeburg, City of*
195 Russel St. S.W., Box 1057
Orangeburg, S.C. 29115
(803) 534-2821
Ted M. Johnson Jr., Manager
customers: 24,215
nameplate capacity (kW): unavailable
1990 MWh generated: 5,784
1990 MWh purchased: 663,712
1990 MWh sold: 628,254
1990 revenues: $32,640,000
established 1898

Piedmont Municipal Power Agency*
121 Village Drive
Greer, S.C. 29651
(803) 877-9632
James A. Bauer, General Manager
customers: wholesale only
nameplate capacity (kW): nuclear: 301,280
1990 MWh generated: 1,677,900
1990 MWh purchased: 1,124,400
1990 MWh sold: wholesale: 2,742,140
1990 revenues: wholesale: $149,581,000
established 1979
(see expanded joint action agency section, page 140)

---

* Member, American Public Power Association
† Member, Demonstration of Energy Efficient Developments Program

SOUTH CAROLINA *(continued)*

Prosperity, Town of
Box 36
Prosperity, S.C. 29127
(803) 364-2622
John Taylor, Public Works Director
customers: 545
1990 MWh generated: 0
1990 MWh purchased: 9,605
1990 MWh sold: 7,765
1990 revenues: $451,000
established 1920

Rock Hill, City of*
155 Johnson St., Box 11706
Rock Hill, S.C. 29730
(803) 329-5512
Charles A. Owen, Utility Director
customers: 20,235
1990 MWh generated: 0
1990 MWh purchased: 479,531
1990 MWh sold: 458,671
1990 revenues: $35,256,000
established 1910

Seneca, City of*
225 N. First St., Box 4773
Seneca, S.C. 29679
(803) 885-2723
Tommy Grant, Director of Utilities
customers: 5,007
1990 MWh generated: 0
1990 MWh purchased: 128,321
1990 MWh sold: 117,825
1990 revenues: $7,507,000
established 1907

South Carolina Public Service Authority†*
One Riverwood Drive
Moncks Corner, S.C. 29461
(803) 761-8000
Kenneth R. Ford, President & CEO
customers: 89,286
nameplate capacity (kW): nuclear: 317,940; coal: 2,161,800; hydro: 134,600; oil: 302,800
1990 MWh generated: 13,588,096
1990 MWh purchased:
  from utilities: 327,063
  from nonutilities: 1,581
1990 MWh sold: retail: 7,496,016
  wholesale: 6,052,238
1990 revenues: retail: $295,078,000
  wholesale: $252,988,000
established 1934

Union, City of*
Sharp Ave., Box 987
Union, S.C. 29379
(803) 429-1717
T. D. Sherbert Jr., Director
customers: 6,844
1990 MWh generated: 0
1990 MWh purchased: 116,165
1990 MWh sold: 107,212
1990 revenues: $7,152,000
established 1897

Westminster, City of*
Box 399
Westminster, S.C. 29693
(803) 647-5071
Dorothy Bibb, Clerk
customers: 2,808
1990 MWh generated: 0
1990 MWh purchased: 23,161
1990 MWh sold: 23,161
1990 revenues: $1,416,000
established 1875

Winnsboro, Town of
N. Congress St., Box 209
Winnsboro, S.C. 29180
(803) 635-4041
Dewey Bost, Electric Superintendent
customers: 3,121
1990 MWh generated: 0
1990 MWh purchased: 73,000
1990 MWh sold: 72,000
1990 revenues: $4,636,000
established 1904

South Dakota

Arlington, City of†*
Arlington, S.D. 57212
(605) 983-5911
Curt Tuttle, Superintendent
customers: 485
1990 MWh generated: 0
1990 MWh purchased: 9,200
1990 MWh sold: 8,040
1990 revenues: $408,000

Aurora, City of†*
Box 335
Aurora, S.D. 57002
(605) 693-3752
Elaine Waples, Finance Officer
customers: 245
1990 MWh generated: 0
1990 MWh purchased: 3,158
1990 MWh sold: 2,898
1990 revenues: $151,000
established 1968

Badger, City of
Box 95
Badger, S.D. 57214
(605) 983-5385
Donna Wilson, Clerk
customers: 78
1990 MWh generated: 0
1990 MWh purchased: 1,163
1990 MWh sold: 1,014
1990 revenues: $32,000
established 1956

Beresford, City of†*
101 N. Third St.
Beresford, S.D. 57004
(605) 763-2008
Richard Satiroff, Electric Superintendent
customers: 1,152
1990 MWh generated: 0
1990 MWh purchased: 16,076
1990 MWh sold: 14,802
1990 revenues: $713,000
established 1950

Big Stone, City of†*
651 Main St., Box 246
Big Stone, S.D. 57216
(605) 862-8121
Mary Jane Lempka, City Auditor
customers: 361
1990 MWh generated: 0
1990 MWh purchased: 15,998
1990 MWh sold: 15,998
1990 revenues: $788,000

Brookings, City of†*
525 Western Ave., Box 588
Brookings, S.D. 57006
(605) 692-6325
Andy Jensen, Electric Superintendent
customers: 6,583
1990 MWh generated: 0
1990 MWh purchased: 161,815
1990 MWh sold: 154,454
1990 revenues: $6,420,000
established 1899

Bryant, City of
Box 145
Bryant, S.D. 57221
(605) 628-2931
Gary Ladwig, Electrical Superintendent
customers: 256
nameplate capacity (kW): oil: 279
1990 MWh generated: 0
1990 MWh purchased: 3,416
1990 MWh sold: 2,739
1990 revenues: $126,000
established 1958

Burke, City of†*
Box 312
Burke, S.D. 57523
(605) 775-2692
Richard N. Bailey, Superintendent
customers: 431
1990 MWh generated: 0
1990 MWh purchased: 6,889
1990 MWh sold: 5,790
1990 revenues: $302,000
established 1936

Colman, City of†*
Box 54
Colman, S.D. 57017
(605) 534-3611
Ross L. Reisig, Mayor
customers: 280
1990 MWh generated: 0
1990 MWh purchased: 8,053
1990 MWh sold: 7,008
1990 revenues: $336,000
established 1965

Elk Point, City of
Box 280
Elk Point, S.D. 57025
(605) 356-2141
Robert L. Eslick, Superintendent
customers: 647
1990 MWh generated: 0
1990 MWh purchased: 10,795
1990 MWh sold: 9,787
1990 revenues: $638,000
established 1918

Estelline, City of†*
Box 278
Estelline, S.D. 57234
(605) 873-2388
Connie Jensen, Finance Officer
customers: 358
1990 MWh generated: 0
1990 MWh purchased: 7,390
1990 MWh sold: 6,520
1990 revenues: $253,000
established 1886

Faith, City of†*
Box 368
Faith, S.D. 57626
(605) 967-2261
Donn Dupper, Electric Superintendent
customers: 278
1990 MWh generated: 0
1990 MWh purchased: 6,046
1990 MWh sold: 5,294
1990 revenues: $286,000

Flandreau, City of†*
136 Second Ave. E.
Flandreau, S.D. 57028
(605) 997-2492
Don Johnston, Superintendent
customers: 1,378
1990 MWh generated: 0
1990 MWh purchased: 20,167
1990 MWh sold: 17,869
1990 revenues: $770,000
established 1938

Fort Pierre, City of†*
40 E. 2nd St., Box 700
Fort Pierre, S.D. 57532
(605) 223-2508
James Hauge, City Superintendent
customers: 874
1990 MWh generated: 0
1990 MWh purchased: 15,800
1990 MWh sold: 14,010
1990 revenues: $808,000
established 1900

Groton, City of†*
Box 587
Groton, S.D. 57445
(605) 397-8422
David Anderson, Electrical Superintendent
customers: 597
1990 MWh generated: 0
1990 MWh purchased: 11,394
1990 MWh sold: 9,875
1990 revenues: $433,000
established 1921

Heartland Consumers Power District†*
Box 248
Madison, S.D. 57042
(605) 256-6536
David C. Westbrock, General Manager
customers: wholesale only
nameplate capacity (kW): coal: 51,300
1990 MWh generated: 378,680
1990 MWh purchased: 7,632
1990 MWh sold: wholesale: 372,551
1990 revenues: wholesale: $9,696,000
established 1969
(see expanded joint action agency section, page 140)

Hecla, City of†*
Box 188
Hecla, S.D. 57446
(605) 994-2333
Delwyn Tisher, Superintendent
customers: 240
1990 MWh generated: 0
1990 MWh purchased: 3,795
1990 MWh sold: 3,390
1990 revenues: $138,000

Howard, City of†*
100 S. Main, Box 705
Howard, S.D. 57349
(605) [illegible]72-4391
Alan Adler, Electric Superintendent
customers: 677
1990 MWh generated: 0
1990 MWh purchased: 11,751
1990 MWh sold: 10,342
1990 revenues: $440,000

Langford, Town of
Box 191
Langford, S.D. 57454
(605) 493-6772
Donald Foote, Electric Superintendent
customers: 167
1990 MWh generated: 0
1990 MWh purchased: 2,468
1990 MWh sold: 2,468
1990 revenues: $94,000
established 1935

Madison, City of†*
Box 308
Madison, S.D. 57042
(605) 256-4586
Richard Nighbert, Superintendent
customers: 3,383
1990 MWh generated: 0
1990 MWh purchased: 62,710
1990 MWh sold: 59,088
1990 revenues: $2,100,000
established 1922

McLaughlin, City of†*
Box 169
McLaughlin, S.D. 57642
(605) 823-4428
Lornie Hach, Utility Manager
customers: 350
1990 MWh generated: 0
1990 MWh purchased: 7,122
1990 MWh sold: 6,514
1990 revenues: $232,000
established 1969

---

* Member, American Public Power Association
† Member, Demonstration of Energy-Efficient Developments Program

Miller, City of
Box 69
Miller, S.D. 57362
(605) 853-2705
Merle Dirksen, Electrical Superintendent
customers: 959
1990 MWh generated: 0
1990 MWh purchased: 24,411
1990 MWh sold: 21,970
1990 revenues: $768,000
established 1904

Missouri Basin Municipal Power Agency†*
Box 84610
Sioux Falls, S.D. 57118-4610
(605) 338-4042
Dan Holdhusen, General Manager
customers: wholesale only
nameplate capacity (kW): coal: 281,640; oil: 67,500
1990 MWh generated: 0
1990 MWh purchased: 1,928,761
1990 MWh sold: wholesale: 1,880,327
1990 revenues: wholesale: $50,727,000
established 1965
(see expanded joint action agency section, page 140)

Onida, City of
Box 72
Onida, S.D. 57564
(605) 258-2441
Jerry Culey, Superintendent
customers: 400
1990 MWh generated: 0
1990 MWh purchased: 6,507
1990 MWh sold: 5,301
1990 revenues: $327,000
established 1926

Parker, City of†*
Box 265
Parker, S.D. 57053
(605) 297-4453
Jim Srstka, Electric Superintendent
customers: 581
1990 MWh generated: 0
1990 MWh purchased: 9,583
1990 MWh sold: 8,221
1990 revenues: $287,000

Pickstown, Town of†*
Box 107
Pickstown, S.D. 57367
(605) 487-7553
Larry Delvaux, President, Board of Trustees
customers: unavailable
1990 MWh generated: unavailable
1990 MWh purchased: unavailable
1990 MWh sold: unavailable
1990 revenues: unavailable
established 1986

Pierre, City of†*
222 E. Dakota Ave.
Pierre, S.D. 57501
(605) 224-7341
David Padgett, Director of Public Works
customers: 6,012
1990 MWh generated: 0
1990 MWh purchased: 149,666
1990 MWh sold: retail: 128,726
wholesale: 9,576
1990 revenues: retail: $4,964,000
wholesale: $142,000
established 1900

Plankinton, City of†*
Box 517
Plankinton, S.D. 57368
(605) 942-7767
Walter C. Miller, Electric Superintendent
customers: 400
1990 MWh generated: 0
1990 MWh purchased: 7,714
1990 MWh sold: 6,509
1990 revenues: $264,000
established 1936

Sioux Falls Municipal Light & Power*
2000 N. Minnesota Ave.
Sioux Falls, S.D. 57104
(605) 339-7150
Craig Overfield, Electric Superintendent
customers: 2,130
1990 MWh generated: 0
1990 MWh purchased: 65,553
1990 MWh sold: 62,428
1990 revenues: $2,833,000
established 1905

Tyndall, City of†*
110 E. Main St., Box 29
Tyndall, S.D. 57066
(605) 589-3481
Mervyn Zwanziger, Electric Superintendent
customers: 596
nameplate capacity (kW): oil: 3,000
1990 MWh generated: 0
1990 MWh purchased: 10,763
1990 MWh sold: 10,763
1990 revenues: $435,000
established 1911

Vermillion, City of†*
25 Center St.
Vermillion, S.D. 57069
(605) 624-5641
Bruce Brunick, Electric Superintendent
customers: 3,565
nameplate capacity (kW): oil: 2,440
1990 MWh generated: 0
1990 MWh purchased: 41,272
1990 MWh sold: 38,822
1990 revenues: $2,519,000
established 1895

Volga, City of†*
Box 207
Volga, S.D. 57071
(605) 627-9113
Wayne Reit, Electric Superintendent
customers: 639
1990 MWh generated: 0
1990 MWh purchased: 15,785
1990 MWh sold: 14,630
1990 revenues: $624,000
established 1941

Watertown Municipal Utilities†*
901 4th Ave. SW
Watertown, S.D. 57201
(605) 886-5733
R. Swanson, Manager
customers: 9,830
1990 MWh generated: 0
1990 MWh purchased: 193,992
1990 MWh sold: 185,788
1990 revenues: $7,006,000
established 1923

Wessington Springs, City of†*
Box 443
Wessington Springs, S.D. 57382
(605) 539-1691
Roger Larson, Electrical Superintendent
customers: 659
1990 MWh generated: 0
1990 MWh purchased: 10,058
1990 MWh sold: 9,199
1990 revenues: $408,000
established 1914

White, City of†*
Box 682
White, S.D. 57276
(605) 629-8161
Dan DeYoung, Electric Superintendent
customers: 174
1990 MWh generated: 0
1990 MWh purchased: 2,151
1990 MWh sold: 2,049
1990 revenues: $162,000
established 1978

Winner, City of†*
217 E. Third St.
Winner, S.D. 57580
(605) 842-2606
Larry Juracek, Manager
customers: 1,902
1990 MWh generated: 0
1990 MWh purchased: 37,518
1990 MWh sold: 31,803
1990 revenues: $1,376,000
established 1948

Tennessee

(All local publicly owned electric utilities in Tennessee are distributors of Tennessee Valley Authority power and purchase all of their power requirements from TVA.)

Alcoa, City of*
264 N. Rankin Road
Alcoa, Tenn. 37701
(615) 981-4115
Larry B. Stargel, Power Manager
customers: 18,280
1990 MWh generated: 0
1990 MWh purchased: 396,000
1990 MWh sold: 370,100
1990 revenues: $21,202,000
established 1956

Athens Utilities†*
100 Englewood Road, Box 689
Athens, Tenn. 37303
(615) 745-4501
George H. Usry, General Manager
customers: 11,135
1990 MWh generated: 0
1990 MWh purchased: 488,191
1990 MWh sold: 466,778
1990 revenues: $24,802,000
established 1939

Benton County
Box 445
Camden, Tenn. 38320
(901) 584-8251
Milton Troutt, Manager
customers: 8,680
1990 MWh generated: 0
1990 MWh purchased: 197,000
1990 MWh sold: 184,000
1990 revenues: $10,667,000
established 1940

Bolivar, City of†*
815 Tennessee St., Box 188
Bolivar, Tenn. 38008
(901) 658-5257
John Fortune, Manager
customers: 9,869
1990 MWh generated: 0
1990 MWh purchased: 226,103
1990 MWh sold: 211,353
1990 revenues: $12,017,000
established 1936

Bristol Electric System†*
2470 Volunteer Parkway, Box 549
Bristol, Tenn. 37621
(615) 968-1526
R. Michael Browder, General Manager
customers: 27,112
1990 MWh generated: 0
1990 MWh purchased: 738,278
1990 MWh sold: 702,281
1990 revenues: $38,460,000
established 1945

Brownsville Utility Department*
25 N. Lafayette, Box 424
Brownsville, Tenn. 38012
(901) 772-1213
John F. Sharpe, Manager
customers: 4,618
1990 MWh generated: 0
1990 MWh purchased: 174,547
1990 MWh sold: 171,011
1990 revenues: $9,405,000
established 1939

Carroll County*
103 W. Paris St., Box 527
Huntingdon, Tenn. 38344-0527
(901) 986-8284
Lynn D. Compton, Manager
customers: 16,859
1990 MWh generated: 0
1990 MWh purchased: 346,571
1990 MWh sold: 326,856
1990 revenues: $18,670,000
established 1938

Chattanooga Electric Power Board†*
537 Cherry St.
Chattanooga, Tenn. 37402
(615) 757-1484
Kenneth S. Baxter, General Manager
customers: 141,739
1990 MWh generated: 0
1990 MWh purchased: 5,217,006
1990 MWh sold: 5,050,007
1990 revenues: $273,671,000
established 1935

Clarksville Department of Electricity*
2021 Guthrie Highway, Box 1007
Clarksville, Tenn. 37040
(615) 648-8151
Dalton Smith, General Manager
customers: 29,370
1990 MWh generated: 0
1990 MWh purchased: 749,104
1990 MWh sold: 714,976
1990 revenues: $40,352,000
established 1939

Cleveland Utilities*
2450 Guthrie Drive NW, Box 2730
Cleveland, Tenn. 37320-2730
(615) 472-4521
Tom Wheeler, General Manager
customers: 23,974
1990 MWh generated: 0
1990 MWh purchased: 809,188
1990 MWh sold: 783,084
1990 revenues: $42,108,000
established 1939

Clinton Utilities Board
1001 Charles G. Seivers Blvd.
Clinton, Tenn. 37716
(615) 457-9232
Byron H. Hale, General Manager
customers: 23,100
1990 MWh generated: 0
1990 MWh purchased: 558,064
1990 MWh sold: 525,282
1990 revenues: $30,013,000
established 1939

Columbia Power System*
201 Pickens Lane, Box 379
Columbia, Tenn. 38402-0379
(615) 388-4833
Bernie L. Steen Jr., General Manager
customers: 17,898
1990 MWh generated: 0
1990 MWh purchased: 493,978
1990 MWh sold: 467,957
1990 revenues: $25,591,000
established 1939

Cookeville, City of*
45 E. Broad St., Box 998
Cookeville, Tenn. 38501

(615) 526-9591
Joseph A. Peek, Director
customers: 11,304
1990 MWh generated: 0
1990 MWh purchased: 423,137
1990 MWh sold: 406,483
1990 revenues: $22,649,000
established 1944

Covington Electric System*
204 E. Liberty St., Box 488
Covington, Tenn. 38019
(901) 476-7104
G. E. Johnson, General Manager
customers: 3,466
1990 MWh generated: 0
1990 MWh purchased: 181,350
1990 MWh sold: 176,038
1990 revenues: $9,737,000
established 1904

Dayton, City of
Box 226
Dayton, Tenn. 37321
(615) 775-1817
Paul Hill, Superintendent
customers: 7,115
1990 MWh generated: 0
1990 MWh purchased: 184,000
1990 MWh sold: 173,400
1990 revenues: $9,636,000

Dickson, City of
121 S. Main St., Box 627
Dickson, Tenn. 37055
(615) 446-9051
Ernest R. Brown, Manager
customers: 21,719
1990 MWh generated: 0
1990 MWh purchased: 512,996
1990 MWh sold: 478,130
1990 revenues: $27,682,000
established 1936

Dyersburg Electric System†*
211 E. Court St., Box 664
Dyersburg, Tenn. 38024
(901) 287-4600
James E. Williamson Jr., Manager
customers: 11,965
1990 MWh generated: 0
1990 MWh purchased: 526,104
1990 MWh sold: 509,698
1990 revenues: $26,339,000
established 1902

Elizabethton Electric System†*
Hatcher Lane, Box 790
Elizabethton, Tenn. 37643
(615) 542-2101
Larry Musick, General Manager
customers: 21,115
1990 MWh generated: 0
1990 MWh purchased: 474,695
1990 MWh sold: 447,224
1990 revenues: $25,112,000
established 1945

Erwin Utilities Board
244 Love St., Box 201
Erwin, Tenn. 37650
(615) 743-1820
Howard C. Brown, General Manager
customers: 7,431
1990 MWh generated: 0
1990 MWh purchased: 198,977
1990 MWh sold: 189,711
1990 revenues: $10,094,000
established 1945

Etowah Utility Board*
110 Ninth St., Box N
Etowah, Tenn. 37331
(615) 263-9441
Doug Swayne, General Manager
customers: 4,454
1990 MWh generated: 0
1990 MWh purchased: 134,958
1990 MWh sold: 129,923
1990 revenues: $6,952,000
established 1939

Fayetteville Electric System*
408 W. College St., Box 120
Fayetteville, Tenn. 37334
(615) 433-1522
Walter J. Szelich Jr., General Manager
customers: 14,420
1990 MWh generated: 0
1990 MWh purchased: 343,596
1990 MWh sold: 319,901
1990 revenues: $18,772,000
established 1937

Gallatin Department of Electricity†*
135 Jones St., Box 1555
Gallatin, Tenn. 37066
(615) 452-5152
William Draper, Manager
customers: 8,775
1990 MWh generated: 0
1990 MWh purchased: 405,997
1990 MWh sold: 392,097
1990 revenues: $20,273,000
established 1939

Greeneville Light & Power System*
Box 1690
Greeneville, Tenn. 37744
(615) 636-6200
Bill Carroll, Manager
customers: 27,436
1990 MWh generated: 0
1990 MWh purchased: 838,966
1990 MWh sold: 795,202
1990 revenues: $44,047,000
established 1945

Harriman, City of
300 Roane St., Box 434
Harriman, Tenn. 37748
(615) 882-3242
Jack Howard, Manager
customers: 9,709
1990 MWh generated: 0
1990 MWh purchased: 294,323
1990 MWh sold: 257,208
1990 revenues: $14,845,000
established 1939

Humboldt Utilities†*
207 S. 13th Ave., Box 850
Humboldt, Tenn. 38343-0850
(901) 784-9212
Stan Little, Manager
customers: 4,592
1990 MWh generated: 0
1990 MWh purchased: 193,600
1990 MWh sold: 185,600
1990 revenues: $9,298,000
established 1939

Jackson Utility Division†*
119 E. College St., Box 68
Jackson, Tenn. 38302-0068
(901) 422-7500
John W. Williams, General Manager
customers: 28,676
1990 MWh generated: 0
1990 MWh purchased: 1,083,193
1990 MWh sold: 1,031,570
1990 revenues: $54,893,000
established 1937

Jellico, City of
400 S. Main St., Box 510
Jellico, Tenn. 37762
(615) 784-8431
John W. Leach, Manager
customers: 4,243
1990 MWh generated: 0
1990 MWh purchased: 71,492
1990 MWh sold: 64,843
1990 revenues: $3,989,000
established 1935

Johnson City Power Board*
100 N. Roan St., Box 1636
Johnson City, Tenn. 37601
(615) 434-4000
Allen L. Phipps, Manager
customers: 51,602
1990 MWh generated: 0
1990 MWh purchased: 1,394,054
1990 MWh sold: 1,340,019
1990 revenues: $71,174,000
established 1945

Knoxville, City of†*
626 S. Gay St., Box 59017
Knoxville, Tenn. 37950-9017
(615) 524-2911
Ed Hoskins, General Manager
customers: 148,810
1990 MWh generated: 0
1990 MWh purchased: 4,511,959
1990 MWh sold: 4,344,750
1990 revenues: $240,586,000
established 1938

La Follette Utilities*
N. Tennessee Ave., Box 1411
La Follette, Tenn. 37766
(615) 562-3316
Gary L. Stooksbury, General Manager
customers: 16,215
1990 MWh generated: 0
1990 MWh purchased: 345,325
1990 MWh sold: 318,596
1990 revenues: $18,767,000
established 1939

Lawrenceburg Power System
1607 N. Locust Ave., Box 649
Lawrenceburg, Tenn. 38464-0649
(615) 762-7161
Jack Dillard, Superintendent
customers: 15,876
1990 MWh generated: 0
1990 MWh purchased: 420,034
1990 MWh sold: 391,346
1990 revenues: $21,410,000
established 1939

Lebanon, City of
410 Park Drive
Lebanon, Tenn. 37087
(615) 444-0825
Terry Hobbs, Superintendent
customers: 7,541
1990 MWh generated: 0
1990 MWh purchased: 305,979
1990 MWh sold: 287,074
1990 revenues: $15,780,000
established 1942

Lenoir City Utilities Board*
200 Depot St., Box 449
Lenoir City, Tenn. 37771
(615) 986-6591
Harry Fraser, General Manager
customers: 33,468
1990 MWh generated: 0
1990 MWh purchased: 915,394
1990 MWh sold: 889,130
1990 revenues: $51,902,000
established 1938

Lewisburg Electric System*
599 W. Ellington Parkway, Box 2727
Lewisburg, Tenn. 37091
(615) 359-2544
Richard Turner, General Manager
customers: 4,929
1990 MWh generated: 0
1990 MWh purchased: 254,000
1990 MWh sold: 246,000
1990 revenues: $13,684,000
established 1939

Lexington, City of†*
92 Main St., Box 200
Lexington, Tenn. 38351
(901) 968-3663
Robert W. Bowman, Manager
customers: 17,000
1990 MWh generated: 0
1990 MWh purchased: 355,807
1990 MWh sold: 335,008
1990 revenues: $19,650,000
established 1939

Loudon, City of†*
Box E
Loudon, Tenn. 37774
(615) 458-2091
W. Barry Baker, General Manager
customers: 5,379
1990 MWh generated: 0
1990 MWh purchased: 191,949
1990 MWh sold: 180,929
1990 revenues: $10,282,000
established 1935

Maryville, City of*
332 Home Ave.
Maryville, Tenn. 37801
(615) 981-3300
Rody Blevins, Director of Operations
customers: 15,534
1990 MWh generated: 0
1990 MWh purchased: 427,972
1990 MWh sold: 405,994
1990 revenues: $22,153,000
established 1939

McMinnville Electric System†*
200 Morford St.
McMinnville, Tenn. 37110
(615) 473-3144
Don Collette, General Manager
customers: 6,~~645~~
1990 MWh generated: 0
1990 MWh purchased: 210,303
1990 MWh sold: 200,730
1990 revenues: $11,255,000
established 1939

Memphis Light, Gas & Water Division†*
220 S. Main St., Box 430
Memphis, Tenn. 38101
(901) 528-4011
William S. Crawford, President & CEO
customers: 363,482
1990 MWh generated: 0
1990 MWh purchased: 11,513,141
1990 MWh sold: 11,106,179
1990 revenues: $613,711,000
established 1939

Milan Department of Public Utilities†*
1085 S. Second St., Box 109
Milan, Tenn. 38358
(901) 686-1537
R. Keaton Webb, III, Manager
customers: 7,067
1990 MWh generated: 0
1990 MWh purchased: 208,232
1990 MWh sold: 198,885
1990 revenues: $10,738,000
established 1897

Morristown Power System†*
441 W. Main St., Box 667
Morristown, Tenn. 37814
(615) 586-4121
James E. Akins, General Manager
customers: 11,600
1990 MWh generated: 0
1990 MWh purchased: 561,936
1990 MWh sold: 545,252
1990 revenues: $30,296,000
established 1901

---

* Member, American Public Power Association
† Member, Demonstration of Energy-Efficient Developments Program

Mount Pleasant Power Station
123 N. Main St., Box 186
Mount Pleasant, Tenn. 38474
(615) 379-3233
Elbert Powell, Manager
customers: 3,386
1990 MWh generated: 0
1990 MWh purchased: 86,957
1990 MWh sold: 83,672
1990 revenues: $4,721,000
established 1939

Murfreesboro Electric Department*
205 N. Walnut St., Box 9
Murfreesboro, Tenn. 37133
(615) 893-5514
Larry D. Kirk, General Manager
customers: 21,860
1990 MWh generated: 0
1990 MWh purchased: 757,426
1990 MWh sold: 730,455
1990 revenues: $38,963,000
established 1939

Nashville Electric Service*
1214 Church St.
Nashville, Tenn. 37203
(615) 747-3895
Dudley Phillips, General Manager
customers: 269,163
1990 MWh generated: 0
1990 MWh purchased: 9,977,838
1990 MWh sold: 9,626,475
1990 revenues: $531,807,000
established 1939

Newbern, City of*
E. Main St., Box 460
Newbern, Tenn. 38059
(901) 627-3221
Joe Ferguson, Director
customers: 1,588
1990 MWh generated: 0
1990 MWh purchased: 72,730
1990 MWh sold: 66,208
1990 revenues: $3,766,000
established 1938

Newport Utilities Board*
301-305 E. Main St., Box 519
Newport, Tenn. 37821
(615) 623-3074
Lindsay Boyd, General Manager
customers: 15,483
1990 MWh generated: 0
1990 MWh purchased: 378,203
1990 MWh sold: 354,691
1990 revenues: $20,286,000
established 1939

Oak Ridge, City of
Box 1
Oak Ridge, Tenn. 37831-0001
(615) 482-8550
Jack Suggs, Electrical Director
customers: 13,833
1990 MWh generated: 0
1990 MWh purchased: 401,881
1990 MWh sold: 374,920
1990 revenues: $20,787,000
established 1960

Paris Board of Public Utilities*
117 E. Washington St.
Paris, Tenn. 38242
(901) 642-1322
Charles R. Perry, General Manager
customers: 16,534
1990 MWh generated: 0
1990 MWh purchased: 388,182
1990 MWh sold: 369,500
1990 revenues: $20,298,000
established 1938

Pulaski Electric System*
203 S. First St., Box 368
Pulaski, Tenn. 38478
(615) 363-2522
Charles Higgins, General Manager
customers: 11,550
1990 MWh generated: 0
1990 MWh purchased: 357,466
1990 MWh sold: 333,027
1990 revenues: $17,795,000
established 1891

Ripley, City of*
Box 69
Ripley, Tenn. 38063
(901) 635-2323
Mike Allmand, Manager
customers: 7,037
1990 MWh generated: 0
1990 MWh purchased: 250,208
1990 MWh sold: 232,902
1990 revenues: $12,268,000
established 1939

Rockwood Electric Utility*
341 W. Rockwood St., Box 108
Rockwood, Tenn. 37854
(615) 354-0514
Charles W. Johnson, General Manager
customers: 10,945
1990 MWh generated: 0
1990 MWh purchased: 248,273
1990 MWh sold: 231,747
1990 revenues: $13,360,000
established 1939

Sevier County Electric System*
315 E. Main St., Box 4870
Sevierville, Tenn. 37864
(615) 453-2887
George R. Seaton, Superintendent
customers: 26,727
1990 MWh generated: 0
1990 MWh purchased: 728,864
1990 MWh sold: 699,561
1990 revenues: $41,674,000
established 1939

Shelbyville Power System
308 S. Main St., Box 530
Shelbyville, Tenn. 37160
(615) 684-7171
Eugene D. Crowell, Manager
customers: 7,188
1990 MWh generated: 0
1990 MWh purchased: 289,732
1990 MWh sold: 277,824
1990 revenues: $15,180,000
established 1939

Smithville, City of
605 E. Broad, Box 228
Smithville, Tenn. 37166
(615) 597-4735
Mark Ashburn, Manager
customers: 2,267
1990 MWh generated: 0
1990 MWh purchased: 75,969
1990 MWh sold: 72,035
1990 revenues: $3,974,000
established 1969

Somerville Light Gas & Water Department*
106 E. Court Square
Somerville, Tenn. 38068
(901) 465-3676
Kennie L. German Jr., General Manager
customers: 1,338
1990 MWh generated: 0
1990 MWh purchased: 32,315
1990 MWh sold: 30,546
1990 revenues: $1,863,000
established 1936

Sparta Electric System*
545 E. Bockman Way, Box 468
Sparta, Tenn. 38583
(615) 738-2281
Wayne Rogers, Manager
customers: 2.612
1990 MWh generated: 0
1990 MWh purchased: 84,744
1990 MWh sold: 80,634
1990 revenues: $4,638,000
established 1962

Springfield, City of†*
718 Central Ave., Box 788
Springfield, Tenn. 37172
(615) 384-6770
Ralph W. Jarrell, Electric Utility Director
customers: 5,398
1990 MWh generated: 0
1990 MWh purchased: 171,734
1990 MWh sold: 162,338
1990 revenues: $9,953,000
established 1905

Sweetwater Utilities Board
101 Oak St., Box 191
Sweetwater, Tenn. 37874
(615) 337-5081
Lewis W. Roach, General Manager
customers: 6,173
1990 MWh generated: 0
1990 MWh purchased: 164,577
1990 MWh sold: 158,004
1990 revenues: $8,978,000
established 1939

Trenton, City of*
309 S. College St.
Trenton, Tenn. 38382
(901) 855-1561
Paul W. Bennett, Manager
customers: 2,585
1990 MWh generated: 0
1990 MWh purchased: 83,500
1990 MWh sold: 81,100
1990 revenues: $4,513,000
established 1938

Tullahoma Utilities Board*
901 S. Jackson, Box 768
Tullahoma, Tenn. 37388
(615) 455-4515
Joe N. Loggins, General Manager
customers: 8,429
1990 MWh generated: 0
1990 MWh purchased: 238,903
1990 MWh sold: 238,042
1990 revenues: $13,345,000
established 1947

Union City Electric System*
312 N. Division St., Box 369
Union City, Tenn. 38261
(901) 885-9212
Stanley R. McMinn, Manager
customers: 5,693
1990 MWh generated: 0
1990 MWh purchased: 337,892
1990 MWh sold: 329,009
1990 revenues: $15,079,000
established 1952

Weakley County Municipal Electric System†*
501 Lindell St., Box 170
Martin, Tenn. 38237-0170
(901) 587-9521
Gerald Brooks, Superintendent
customers: 17,386
1990 MWh generated: 0
1990 MWh purchased: 449,007
1990 MWh sold: 425,330
1990 revenues: $23,865,000
established 1938

Winchester, City of
219 Second Ave. N.W.
Winchester, Tenn. 37398
(615) 967-2238
Lynn Bean, Manager
customers: 4,083
1990 MWh generated: 0
1990 MWh purchased: 109,409
1990 MWh sold: 103,615
1990 revenues: $6,003,000
established 1939

Texas

Austin, City of†*
721 Barton Springs Road
Austin, Texas 78704
(512) 322-9600
John Moore, Director
customers: 266,064
nameplate capacity (kW): nuclear: 433,380; coal: 615,000; gas: 1,740,280; other: 300
1990 MWh generated: 6,963,630
1990 MWh purchased:
  from utilities: 147,413
  from nonutilities: 2,756
1990 MWh sold: retail: 6,416,547
  wholesale: 378,400
1990 revenues: retail: $418,327,000
  wholesale: $8,188,000
established 1895

Bartlett, City of
140 W. Clark St., Drawer H
Bartlett, Texas 76511
(817) 527-3557
Mike Williams, Superintendent
customers: 680
1990 MWh generated: 0
1990 MWh purchased: 7,995
1990 MWh sold: 7,045
1990 revenues: $731,000
established 1920

Bastrop, City of
904 Main St., Box S
Bastrop, Texas 78602
(512) 321-3941
Joann Wilcoxen, Finance Director
customers: 1,907
1990 MWh generated: 0
1990 MWh purchased: 42,416
1990 MWh sold: 39,191
1990 revenues: $2,946,000

Bellville, City of
30 S. Holland, Drawer 817
Bellville, Texas 77418
(409) 865-3136
John Mumme, City Administrator
customers: 1,868
1990 MWh generated: 0
1990 MWh purchased: 44,272
1990 MWh sold: 42,186
1990 revenues: $2,075,000
established 1940

Boerne, City of*
402 E. Blanco Road, Box 1677
Boerne, Texas 78006
(512) 249-9511
Ronald C. Bowman, City Administrator
customers: 2,497
1990 MWh generated: 0
1990 MWh purchased: 52,000
1990 MWh sold: 50,000
1990 revenues: $3,250,000
established 1943

Bowie, City of
304 Lindsey
Bowie, Texas 76230
(817) 872-1114
Ronnie Parkinson, Superintendent
customers: 2,947
1990 MWh generated: 0
1990 MWh purchased: 47,990
1990 MWh sold: 44,698
1990 revenues: $3,515,000
established 1917

Brady, City of
101 E. Main, Box 351
Brady, Texas 76825
(915) 597-2152

TEXAS *(continued)*

Thomas H. (Jack) Caffall, City Manager
customers: 3,002
nameplate capacity (kW): oil: 16,850
1990 MWh generated: 3,712
1990 MWh purchased: 51,364
1990 MWh sold: 47,622
1990 revenues: $3,526,000
established 1912

Brazos River Authority
Box 7555
Waco, Texas 76714
(817) 776-1441
John Garland, Reservoirs & Project Divisions Mgr.
customers: wholesale only
nameplate capacity (kW): hydro: 25,000
1990 MWh generated: 58,759
1990 MWh purchased: 0
1990 MWh sold: wholesale: 58,317
1990 revenues: wholesale: $323,000
established 1929

Brenham, City of
210 N. Park St., Box 1059
Brenham, Texas 77833
(409) 836-7911
Kent Van Eman, Director of Public Works
customers: 6,344
1990 MWh generated: 0
1990 MWh purchased: 233,739
1990 MWh sold: 224,094
1990 revenues: $10,250,000
established 1941

Bridgeport, City of
812 Halsell St.
Bridgeport, Texas 76026
(817) 683-2275
Doug Whitehead, Assistant City Administrator
customers: 1,646
nameplate capacity (kW): unavailable
1990 MWh generated: 30,000
1990 MWh purchased: 0
1990 MWh sold: 26,000
1990 revenues: $1,935,000
established 1926

Brownfield Municipal Light & Power
201 W. Broadway
Brownfield, Texas 79316
(806) 637-4547
R. C. Fletcher, City Manager
customers: 4,123
nameplate capacity (kW): gas: 21,920
1990 MWh generated: 3,044
1990 MWh purchased: 61,360
1990 MWh sold: 56,985
1990 revenues: $3,461,000
established 1923

Brownsville Public Utilities Board*
Box 3270
Brownsville, Texas 78520
(512) 982-6100
William Towers, General Manager & CEO
customers: 28,912
nameplate capacity (kW): coal: 67,450; gas: 107,000
1990 MWh generated: 442,102
1990 MWh purchased: 239,924
1990 MWh sold: 601,971
1990 revenues: $39,075,000
established 1904

Bryan, City of†*
205 E. 28th St.
Bryan, Texas 77801
(409) 361-3750
Dan Wilkerson, Operations Manager
customers: 23,264
nameplate capacity (kW): coal: 87,200; gas: 243,000
1990 MWh generated: 456,068
1990 MWh purchased: 609,037
1990 MWh sold: retail: 525,638
wholesale: 486,932
1990 revenues: retail: $37,187,000
wholesale: $18,494,000
established 1919

Burnet, City of
127 E. Jackson St.
Burnet, Texas 78611
(512) 756-4858
Johnny Sartain, City Manager
customers: 2,081
1990 MWh generated: 0
1990 MWh purchased: 34,476
1990 MWh sold: 32,033
1990 revenues: $2,306,000

Caldwell, City of
107 S. Hill St.
Caldwell, Texas 77836
(409) 567-3271
William L. Broaddus, City Administrator
customers: 1,648
1990 MWh generated: 0
1990 MWh purchased: 42,102
1990 MWh sold: 38,784
1990 revenues: $3,000,000
established 1931

Castroville, City of
1209 N. Fiorella St.
Castroville, Texas 78009
(512) 538-2224
Bruce A. Alexander, Superintendent
customers: 951
1990 MWh generated: 0
1990 MWh purchased: 16,408
1990 MWh sold: 14,014
1990 revenues: $1,167,000
established 1948

Coleman, City of
201 N. Colorado
Coleman, Texas 76834
(915) 625-4116
David S. Sooter, City Secretary
customers: 2,763
nameplate capacity (kW): gas: 16,860
1990 MWh generated: 6,069
1990 MWh purchased: 35,114
1990 MWh sold: 36,058
1990 revenues: $2,611,000
established 1904

College Station, City of*
1101 Texas Ave., Box 9960
College Station, Texas 77840
(409) 764-3688
John C. Woody, Assistant City Manager/Operations
customers: 18,603
1990 MWh generated: 0
1990 MWh purchased: 390,519
1990 MWh sold: 375,531
1990 revenues: $27,918,000
established 1939

Cuero, City of
201 E. Main, Box 512
Cuero, Texas 77954
(512) 275-6114
James C. Morgan, City Manager
customers: 3,502
1990 MWh generated: 0
1990 MWh purchased: 79,510
1990 MWh sold: 75,077
1990 revenues: $4,200,000

Denton, City of†*
215 E. McKinney
Denton, Texas 76205
(817) 566-8230
Robert E. Nelson, Executive Director, Utilities
customers: 26,896
nameplate capacity (kW): coal: 100,300; gas: 173,945
1990 MWh generated: 98,635
1990 MWh purchased: 806,175
1990 MWh sold: retail: 774,400
wholesale: 90,230
1990 revenues: retail: $54,709,000
wholesale: $1,631,000
established 1905

Electra, City of
101 N. Main St.
Electra, Texas 76360
(817) 495-2432
Ted Miller, Mayor
customers: 1,134
nameplate capacity (kW): gas: 4,230
1990 MWh generated: 9
1990 MWh purchased: 20,598
1990 MWh sold: 17,282
1990 revenues: $1,165,000
established 1939

Farmersville, City of
205 S. Main St.
Farmersville, Texas 75442
(214) 782-6151
Randall E. Holly, City Manager
customers: 1,328
1990 MWh generated: 0
1990 MWh purchased: 19,096
1990 MWh sold: 17,226
1990 revenues: $1,509,000
established 1930

Flatonia, City of
125 E.S. Main St., Box 375
Flatonia, Texas 78941
(512) 865-3548
Doris Walker, Clerk
customers: 954
1990 MWh generated: 0
1990 MWh purchased: 20,475
1990 MWh sold: 19,205
1990 revenues: $1,005,000
established 1945

Floresville Electric Light and Power System
1400 Fourth St., Box 218
Floresville, Texas 78114
(512) 393-3131
Fred R. Wauters, General Manager
customers: 9,964
1990 MWh generated: 0
1990 MWh purchased: 135,727
1990 MWh sold: 121,890
1990 revenues: $8,872,000
established 1943

Floydada, City of*
114 W. Virginia St., Box 10
Floydada, Texas 79235
(806) 983-2834
Connie Galloway, Superintendent
customers: 1,237
nameplate capacity (kW): gas: 7,800
1990 MWh generated: 0
1990 MWh purchased: 16,349
1990 MWh sold: 15,965
1990 revenues: $969,000
established 1939

Fredericksburg, City of
126 W. Main St., Box 111
Fredericksburg, Texas 78624-0111
(512) 997-7521
Jerry Bain, Director of Public Works
customers: 4,285
1990 MWh generated: 0
1990 MWh purchased: 86,700
1990 MWh sold: 82,200
1990 revenues: $4,201,000
established 1935

Garland, City of*
200 N. Fifth St., Suite 427
Garland, Texas 75040
(214) 205-2472
William E. Dollar, Assistant City Manager
customers: 58,931
nameplate capacity (kW): coal: 209,170; gas: 441,500
1990 MWh generated: 816,145
1990 MWh purchased: 1,456,161
1990 MWh sold: retail: 1,674,533
wholesale: 494,666
1990 revenues: retail: $105,992,000
wholesale: $9,149,000
established 1922

Garrison, City of
Box 207
Garrison, Texas 75946
(409) 347-2201
Melvis Bell, Utilities Superintendent
customers: 565
1990 MWh generated: 0
1990 MWh purchased: 8,344
1990 MWh sold: 8,344
1990 revenues: $490,000

Georgetown Utilities*
Box 409
Georgetown, Texas 78627-0409
(512) 869-3636
Jim Briggs, Director of Public Utilities
customers: 7,351
1990 MWh generated: 0
1990 MWh purchased: 161,524
1990 MWh sold: 157,156
1990 revenues: $10,070,000
established 1911

Giddings, City of
118 E. Richmond St.
Giddings, Texas 78942
(409) 542-2311
James E. Dover, City Manager
customers: 2,044
1990 MWh generated: 0
1990 MWh purchased: 43,180
1990 MWh sold: 39,747
1990 revenues: $2,502,000
established 1941

Goldsmith, City of
Box 629
Goldsmith, Texas 79741
(915) 827-3404
Betty Fife, City Secretary
customers: unavailable
1990 MWh generated: unavailable
1990 MWh purchased: unavailable
1990 MWh sold: unavailable
1990 revenues: unavailable
established 1956

Goldthwaite, City of
1218 Fisher St., Box 450
Goldthwaite, Texas 76844
(915) 648-3186
Dale Allen, City Manager
customers: 1,048
1990 MWh generated: 0
1990 MWh purchased: 16,157
1990 MWh sold: 15,023
1990 revenues: $989,000
established 1941

Gonzales, City of
820 St. Joseph St., Drawer 547
Gonzales, Texas 78629
(512) 672-2815
E. T. Gibson, City Manager
customers: 2,920
nameplate capacity (kW): unavailable
1990 MWh generated: 2,721
1990 MWh purchased 63,706
1990 MWh sold: 62,254

---

* Member, American Public Power Association
† Member, Demonstration of Energy-Efficient Developments Program

1990 revenues: $3,925,000
established 1941

Granbury, City of
Box 969
Granbury, Texas 76048
(817) 573-1115
Robert D. Brockman, City Manager
customers: 3,185
1990 MWh generated: 0
1990 MWh purchased: 59,661
1990 MWh sold: 54,507
1990 revenues: $3,769,000
established 1921

Greenville Electric Utility System†*
2910 Lee St., Box 1049
Greenville, Texas 75403-1049
(903) 457-3137
Thomas L. Darte, Director
customers: 11,555
nameplate capacity (kW): coal: 47,330; gas: 118,806; oil: 3,885
1990 MWh generated: 119,121
1990 MWh purchased: 442,167
1990 MWh sold: retail: 397,959
wholesale: 142,025
1990 revenues: retail: $25,340,000
wholesale: $4,395,000
established 1891

Guadalupe-Blanco River Authority*
933 E. Court St., Box 271
Seguin, Texas 78155
(512) 379-5822
John H. Specht, General Manager
customers: wholesale only
nameplate capacity (kW): hydro: 22,000
1990 MWh generated: 69,705
1990 MWh purchased: 0
1990 MWh sold: wholesale: 69,705
1990 revenues: wholesale: $1,343,000
established 1963

Hallettsville Municipal Utilities
101 N. Main St., Box 257
Hallettsville, Texas 77964-0257
(512) 798-3681
Ervin Kolacny, Line Superintendent
customers: 1,553
1990 MWh generated: 0
1990 MWh purchased: 30,303
1990 MWh sold: 28,560
1990 revenues: $1,682,000
established 1891

Hearne, City of
210 Cedar St.
Hearne, Texas 77859
(409) 279-3461
Dorothy Lastor, City Manager
customers: 2,385
1990 MWh generated: 0
1990 MWh purchased: 41,507
1990 MWh sold: 32,673
1990 revenues: $2,938,000
established 1912

Hemphill, City of
Drawer L
Hemphill, Texas 75948
(409) 787-2251
Tommy Neal, City Manager
customers: 678
1990 MWh generated: 0
1990 MWh purchased: 14,599
1990 MWh sold: 12,839
1990 revenues: $959,000
established 1939

Hempstead, City of
1125 Austin St.
Hempstead, Texas 77445
(409) 826-2486
James Vines, City Administrator
customers: 1,770
1990 MWh generated: 0
1990 MWh purchased: 39,825
1990 MWh sold: 34,822
1990 revenues: $1,441,000
established 1940

Hondo, City of
1600 Avenue M
Hondo, Texas 78861
(512) 426-3377
Oscar Dominguez, Manager
customers: 2,745
1990 MWh generated: 0
1990 MWh purchased: 48,554
1990 MWh sold: 44,292
1990 revenues: $3,645,000
established 1942

Jasper, City of*
272 E. Lamar St., Box 610
Jasper, Texas 75951
(409) 384-4651
Wayne DuBose, City Manager
customers: 4,185
1990 MWh generated: 0
1990 MWh purchased: 124,000
1990 MWh sold: 118,000
1990 revenues: $8,594,000
established 1948

Kerrville Public Utility Board*
2250 Memorial Blvd., Box 911
Kerrville, Texas 78029
(512) 257-3050
Bill Taylor, Manager
customers: 15,804
1990 MWh generated: 0
1990 MWh purchased: 335,099
1990 MWh sold: 326,048
1990 revenues: $19,410,000
established 1987

Kirbyville Light & Power Co.
107 S. Elizabeth St.
Kirbyville, Texas 75956
(409) 423-2464
C. B. Herndon, Manager
customers: 1,198
1990 MWh generated: 0
1990 MWh purchased: 17,274
1990 MWh sold: 16,118
1990 revenues: $1,325,000
established 1974

La Grange Utilities
155 E. Colorado St., Box 339
La Grange, Texas 78945
(409) 968-3127
Blane S. Byler, Utilities Manager
customers: 2,626
1990 MWh generated: 0
1990 MWh purchased: 51,677
1990 MWh sold: 47,800
1990 revenues: $2,758,000

Lampasas, City of
302 E. Third St., Box 666
Lampasas, Texas 76550
(512) 556-3641
J. O. Tanner, City Manager
customers: 3,391
1990 MWh generated: 0
1990 MWh purchased: 70,797
1990 MWh sold: 68,039
1990 revenues: $4,523,000
established 1946

Lexington, City of
Box 56
Lexington, Texas 78947
(409) 773-2221
Jerry E. Poston, Manager
customers: 474
1990 MWh generated: 0
1990 MWh purchased: 8,350
1990 MWh sold: 7,000
1990 revenues: $496,000
established 1938

Liberty, City of*
1829 Sam Houston St., City Hall
Liberty, Texas 77575
(409) 336-6872
Don Ivy, Electrical Superintendent
customers: 3,232
1990 MWh generated: 0
1990 MWh purchased: 115,094
1990 MWh sold: 100,978
1990 revenues: $7,713,000
established 1939

Livingston, City of*
200 W. Church St.
Livingston, Texas 77351
(409) 327-4311
Sam Gordon, City Manager
customers: 2,800
1990 MWh generated: 0
1990 MWh purchased: 69,576
1990 MWh sold: 64,213
1990 revenues: $5,984,000
established 1920

Llano Utilities
301 W. Main St.
Llano, Texas 78643
(915) 247-4158
George C. Rogers, City Manager
customers: 1,641
1990 MWh generated: 0
1990 MWh purchased: 33,529
1990 MWh sold: 31,374
1990 revenues: $1,995,000
established 1946

Lockhart, City of*
308 W. San Antonio St., Box 239
Lockhart, Texas 78644
(512) 398-3461
Joe A. Michie, City Manager
customers: 3,728
1990 MWh generated: 0
1990 MWh purchased: 71,909
1990 MWh sold: 67,696
1990 revenues: $3,763,000
established 1928

Lower Colorado River Authority*
3700 Lake Austin Blvd., Box 220
Austin, Texas 78767
(512) 473-3200
Mark Rose, General Manager
customers: 62
nameplate capacity (kW): coal: 1,075,000; hydro: 225,250; gas: 1,085,000
1990 MWh generated: 8,172,724
1990 MWh purchased: 84,447
1990 MWh sold: retail: 124,322
wholesale: 7,792,437
1990 revenues: retail: $5,173,000
wholesale: $296,423,000
established 1935

Lubbock, City of*
916 Texas Ave., Box 2000
Lubbock, Texas 79457
(806) 767-2500
Carroll McDonald, Asst. City Manager, Utilities
customers: 44,170
nameplate capacity (kW): gas: 215,650
1990 MWh generated: 664,032
1990 MWh purchased: 276,877
1990 MWh sold: 886,079
1990 revenues: $49,272,000
established 1916

Luling, City of
509 E. Crockett St., Box 630
Luling, Texas 78648-0630
(512) 875-2469
Harold Watts, City Manager
customers: 2,453
1990 MWh generated: 0
1990 MWh purchased: 41,463
1990 MWh sold: 37,909
1990 revenues: $2,446,000
established 1941

Mason, City of
124 Moody St., Box 68
Mason, Texas 76856
(915) 347-6449
Pattie L. Grote, City Secretary
customers: 1,307
1990 MWh generated: 0
1990 MWh purchased: 17,000
1990 MWh sold: 15,000
1990 revenues: $1,183,000
established 1945

Moulton, City of
102 S. West St., Box 369
Moulton, Texas 77975
(512) 596-4621
Richard Kresta Jr., City Secretary
customers: 662
1990 MWh generated: 0
1990 MWh purchased: 9,511
1990 MWh sold: 8,523
1990 revenues: $697,000
established 1939

New Braunfels Utilities*
263 Main Plaza E., Box 310289
New Braunfels, Texas 78131-0289
(512) 629-8400
Robert H. Sohn, General Manager
customers: 16,278
1990 MWh generated: 0
1990 MWh purchased: 732,618
1990 MWh sold: 702,672
1990 revenues: $32,894,000
established 1942

Newton, City of
Box 889
Newton, Texas 75966
(409) 379-4656
Charles Johnson, Electrical Superintendent
customers: 872
1990 MWh generated: 0
1990 MWh purchased: 16,566
1990 MWh sold: 15,482
1990 revenues: $1,275,000
established 1936

Plains, City of
Box 550
Plains, Texas 79355
(806) 456-2288
David Brunson, City Administrator
customers: 407
1990 MWh generated: 0
1990 MWh purchased: 5,898
1990 MWh sold: 5,127
1990 revenues: $361,000

Robstown, City of*
101 E. Main St., Box 71
Robstown, Texas 78380
(512) 387-3554
Roy Gutierrez, Superintendent
customers: 4,418
nameplate capacity (kW): gas: 21,071
1990 MWh generated: 23,226
1990 MWh purchased: 54,997
1990 MWh sold: 73,040
1990 revenues: $5,419,000
established 1939

Sam Rayburn Municipal Power Agency*
1412 S. Houston, Box 1700
Livingston, Texas 77351
(409) 327-5303
North Bardell, Executive Director
customers: wholesale only
nameplate capacity (kW): unavailable
1990 MWh generated: 333,155
1990 MWh purchased: 7,668
1990 MWh sold: wholesale: 333,528
1990 revenues: wholesale: $18,192,000
established 1979

TEXAS *(continued)*

(see expanded joint action agency section, page 140)

San Antonio City Public Service Board•
145 Navarro, Box 1771
San Antonio, Texas 78296-1771
(512) 978-2000
Arthur von Rosenberg, General Manager
customers: 469,262
nameplate capacity (kW): nuclear: 758,400; coal: 892,000; gas: 2,584,000
1990 MWh generated: 12,445,938
1990 MWh purchased: 18,841
1990 MWh sold: retail: 11,527,718
wholesale: 298,249
1990 revenues: retail: $659,838,000
wholesale: $10,495,000
established 1942

San Augustine, City of
301 S. Harrison St.
San Augustine, Texas 75972
(409) 275-2121
Alton Shaw, City Manager
customers: 1,049
1990 MWh generated: 0
1990 MWh purchased: 22,000
1990 MWh sold: 19,312
1990 revenues: $1,571,000
established 1917

San Marcos Electric Utility
Box 788
San Marcos, Texas 78666
(512) 396-2451
Bob Higgs, Manager
customers: 12,634
1990 MWh generated: 0
1990 MWh purchased: 298,014
1990 MWh sold: 285,904
1990 revenues: $16,573,000
established 1986

San Saba, City of
303 S. Clear St.
San Saba, Texas 76877
(915) 372-3131
James Reavis, City Administrator
customers: 1,694
1990 MWh generated: 0
1990 MWh purchased: 26,660
1990 MWh sold: 24,795
1990 revenues: $1,665,000
established 1988

Sanger, City of•
201 Bolivar St., Box 578
Sanger, Texas 76266
(817) 458-7930
Larry Yoast, Director
customers: 1,691
1990 MWh generated: 0
1990 MWh purchased: 26,661
1990 MWh sold: 25,012
1990 revenues: $1,722,000
established 1929

Schulenburg, City of
607 Upton Ave.
Schulenburg, Texas 78956
(409) 743-4126
Ronald G. Brossmann, City Administrator
customers: 1,583
1990 MWh generated: 0
1990 MWh purchased: 31,770
1990 MWh sold: 29,182
1990 revenues: $1,889,000
established 1941

Seguin, City of
205 N. River St., Box 591
Seguin, Texas 78155
(512) 379-3212
Jake Krauskopf, City Manager
customers: 8,212
nameplate capacity (kW): hydro: 250; oil: 250
1990 MWh generated: 1,049
1990 MWh purchased: 185,178
1990 MWh sold: 179,436
1990 revenues: $11,083,000
established 1907

Seymour, City of
301 N. Washington St., Box 31
Seymour, Texas 76380
(817) 888-3148
Nolan Davis, Mayor
customers: 1,747
1990 MWh generated: 0
1990 MWh purchased: 27,264
1990 MWh sold: 25,901
1990 revenues: $1,899,000
established 1929

Shiner, City of
Box 308
Shiner, Texas 77984
(512) 594-3362
Norma Goetz, City Secretary
customers: 1,297
1990 MWh generated: 0
1990 MWh purchased: 28,076
1990 MWh sold: 25,964
1990 revenues: $1,800,000
established 1953

Smithville, City of
317 Main St., Box 449
Smithville, Texas 78957
(512) 237-3267
Gerald G. Decker, City Manager
customers: 1,719
1990 MWh generated: 0
1990 MWh purchased: 26,739
1990 MWh sold: 24,289
1990 revenues: $1,797,000
established 1939

Texas Municipal Power Agency•
Box 7000
Bryan, Texas 77805
(409) 873-2013
Ed Wagoner, Executive Director & General Mgr.
customers: wholesale only
nameplate capacity (kW): unavailable
1990 MWh generated: 3,074,058
1990 MWh purchased: 0
1990 MWh sold: wholesale: 2,974,265
1990 revenues: wholesale: $169,394,000
established 1975
(see expanded joint action agency section, page 140)

Timpson, City of
Box 369
Timpson, Texas 75975
(409) 254-2421
Tommy Sparks, Superintendent
customers: unavailable
1990 MWh generated: unavailable
1990 MWh purchased: unavailable
1990 MWh sold: unavailable
1990 revenues: unavailable

Toledo Bend Project
Texas
(409) 565-2273
Jim Washburn, Toledo Bend Division
customers: wholesale only
nameplate capacity (kW): unavailable
1990 MWh generated: 343,953
1990 MWh purchased: 0
1990 MWh sold: wholesale: 343,056
1990 revenues: wholesale: $6,449,000

Tulia, City of
201 N. Maxwell St.
Tulia, Texas 79088
(806) 995-3547
N. D. Waggoner, Director
customers: 2,240
nameplate capacity (kW): gas: 16,700
1990 MWh generated: 0
1990 MWh purchased: 30,495
1990 MWh sold: 27,135
1990 revenues: $1,812,000
established 1912

Waelder, City of
Box 427
Waelder, Texas 78959
(512) 665-7331
Sandra Shows, Secretary
customers: 437
1990 MWh generated: 0
1990 MWh purchased: 6,740
1990 MWh sold: 5,990
1990 revenues: $260,000
established 1927

Weatherford Municipal Utility System•
303 Palo Pinto St., Box 255
Weatherford, Texas 76086
(817) 594-5441
James R. Dickason, Director of Utilities
customers: 8,559
nameplate capacity (kW): gas: 2,720; oil: 3,140
1990 MWh generated: 1,114
1990 MWh purchased: 188,061
1990 MWh sold: 180,037
1990 revenues: $11,778,000
established 1940

Weimar, City of†•
106 E. Main St., Box 67
Weimar, Texas 78962
(409) 725-8554
Francis E. Parks, City Manager
customers: 1,108
1990 MWh generated: 0
1990 MWh purchased: 30,745
1990 MWh sold: 27,821
1990 revenues: $1,646,000
established 1939

Whitesboro, City of
112 W. Main St., Box 340
Whitesboro, Texas 76273
(214) 564-3311
Joe N. West, City Administrator
customers: 1,655
nameplate capacity (kW): gas: 2,650
1990 MWh generated: 2,131
1990 MWh purchased: 21,013
1990 MWh sold: 21,013
1990 revenues: $1,485,000
established 1914

Yoakum, City of•
900 Irvine St., Box 738
Yoakum, Texas 77995
(512) 293-6321
William H. Lewis, City Manager
customers: 2,984
1990 MWh generated: 0
1990 MWh purchased: 53,580
1990 MWh sold: 50,129
1990 revenues: $3,426,000

Utah

Beaver City Corp.
60 W. Center St.
Beaver City, Utah 84713
(801) 438-2451
Hal R. Lessing, City Recorder
customers: 943
nameplate capacity (kW): hydro: 900
1990 MWh generated: 3,309
1990 MWh purchased: 20,479
1990 MWh sold: 18,834
1990 revenues: $1,211,000

Blanding, City of•
50 W. 100 South
Blanding, Utah 84511
(801) 678-2791
Norman L. Johnson, City Manager/Recorder
customers: 1,181
1990 MWh generated: 0
1990 MWh purchased: 20,000
1990 MWh sold: retail: 17,000
wholesale: 1,000
1990 revenues: retail: $1,215,000
wholesale: $34,000
established 1941

Bountiful City Light & Power•
198 S. 200 West St.
Bountiful City, Utah 84010
(801) 298-6072
Clifford C. Michaelis, Director
customers: 12,622
nameplate capacity (kW): hydro: 4,500; gas: 13,900; oil: 150
1990 MWh generated: 8,877
1990 MWh purchased: 223,351
1990 MWh sold: 217,735
1990 revenues: $10,738,000
established 1935

Brigham City Corp.•
20 N. Main St., Box A
Brigham City, Utah 84302
(801) 734-2001
James D. Davis, Director of Public Utilities
customers: 5,931
nameplate capacity (kW): hydro: 1,700
1990 MWh generated: 6,114
1990 MWh purchased: 77,785
1990 MWh sold: 78,665
1990 revenues: $4,203,000
established 1905

Enterprise, City of•
15 S. 100 East, Box 340
Enterprise, Utah 84725-0340
(801) 878-2221
Richard P. Truman, Supervisor
customers: 476
1990 MWh generated: 0
1990 MWh purchased: 6,840
1990 MWh sold: 6,840
1990 revenues: $308,000
established 1972

Ephraim, City of•
5 S. Main St.
Ephraim, Utah 84627
(801) 283-4631
Alan Grindstaff, City Administrator
customers: 1,012
nameplate capacity (kW): hydro: 3,160
1990 MWh generated: 8,511
1990 MWh purchased: 19,227
1990 MWh sold: 17,462
1990 revenues: $1,242,000

Fairview City Corp.•
Box 97
Fairview, Utah 84629
(801) 427-3858
Kent Miner, City Manager
customers: 550
1990 MWh generated: 0
1990 MWh purchased: 4,980
1990 MWh sold: 4,762
1990 revenues: $342,000
established 1903

Fillmore City Corp.•
75 West Center, Box 687
Fillmore, Utah 84631
(801) 743-5233
Annette Johnson, City Treasurer
customers: 912

• Member, American Public Power Association
† Member, Demonstration of Energy-Efficient Developments Program

1990 MWh generated: 0
1990 MWh purchased: 23,888
1990 MWh sold: 21,235
1990 revenues: $1,404,000
established 1918

Heber Light & Power Co.*
31 S. 100 West
Heber City, Utah 84032
(801) 654-1581
Ray Farrell, General Manager
customers: 4,000
nameplate capacity (kW): hydro: 2,300; gas: 2,400
1990 MWh generated: 9,279
1990 MWh purchased: 39,405
1990 MWh sold: 41,314
1990 revenues: $2,812,000
established 1909

Helper, City of
73 S. Main St.
Helper, Utah 84526
(801) 472-5391
Mike Dalpaiz, Mayor
customers: 1,033
1990 MWh generated: 0
1990 MWh purchased: 13,000
1990 MWh sold: 10,700
1990 revenues: $535,000
established 1900

Holden Town Corp.*
Box 127
Holden, Utah 84636
(801) 795-2672
Mary Johnson, Board Member
customers: 168
1990 MWh generated: 0
1990 MWh purchased: 2,604
1990 MWh sold: 2,604
1990 revenues: $140,000
established 1922

Hurricane Power Committee†*
Box 918
Hurricane, Utah 84737
(801) 635-2811
Rick Marchal, Director of Utility
customers: 1,693
1990 MWh generated: 0
1990 MWh purchased: 24,343
1990 MWh sold: 24,343
1990 revenues: $1,531,000
established 1975

Hyrum City Corp.*
83 W. Main St.
Hyrum, Utah 84319
(801) 245-6033
D. Brent Jensen, City Recorder
customers: 1,470
nameplate capacity (kW): hydro: 500
1990 MWh generated: 2,247
1990 MWh purchased: 50,474
1990 MWh sold: 50,444
1990 revenues: $2,583,000

Intermountain Power Agency*
480 E. 6400 S., Suite 200
Murray, Utah 84107
(801) 262-8807
Reed T. Searle, General Manager
customers: wholesale only
nameplate capacity (kW): coal: 1,783,800
1990 MWh generated: 12,704,889
1990 MWh purchased: 996
1990 MWh sold: wholesale: 12,705,885
1990 revenues: wholesale: $626,950,000
established 1974
(*see expanded joint action agency section, page 140*)

Kanab City Corp.*
76 N. Main #14
Kanab, Utah 84741
(801) 644-2534
James H. Willis, Power Manager
customers: unavailable
1990 MWh generated: unavailable
1990 MWh purchased: unavailable
1990 MWh sold: unavailable
1990 revenues: unavailable
established 1987

Kanosh Corp., Town of*
Box 96
Kanosh, Utah 84637
(801) 759-2414
Robert Nafus
customers: 203
1990 MWh generated: 0
1990 MWh purchased: 2,134
1990 MWh sold: 2,072
1990 revenues: $136,000

Kaysville, City Corp.*
23 E. Center
Kaysville, Utah 84037
(801) 544-8925
Walt Meacham, Electric Superintendent
customers: 4,163
nameplate capacity (kW): unavailable
1990 MWh generated: 37,061
1990 MWh purchased: 17,107
1990 MWh sold: 47,433
1990 revenues: $3,396,000
established 1908

Lehi City†
300 N. 500 W.
Lehi, Utah 84043
(801) 768-3030
Glen Carter, Power Superintendent
customers: 2,837
1990 MWh generated: 0
1990 MWh purchased: 24,066
1990 MWh sold: 24,066
1990 revenues: $1,758,000
established 1926

Levan Town Corp.*
20 N. Main, Box 40
Levan, Utah 84639
(801) 623-1959
Connie Dubinsky, Manager
customers: 202
1990 MWh generated: 0
1990 MWh purchased: 3,260
1990 MWh sold: 2,815
1990 revenues: $123,000
established 1919

Logan, City of*
255 N. Main St.
Logan, Utah 84321
(801) 752-3068
Vaun Bethers, Director
customers: 12,367
nameplate capacity (kW): hydro: 7,900; oil: 7,060
1990 MWh generated: 20,615
1990 MWh purchased: 236,091
1990 MWh sold: 243,036
1990 revenues: $14,484,000
established 1903

Manti, City of*
50 S. Main St.
Manti, Utah 84642
(801) 835-2401
Gene Rogers, Superintendent
customers: 1,180
nameplate capacity (kW): hydro: 2,800
1990 MWh generated: 3,942
1990 MWh purchased: 8,746
1990 MWh sold: 10,134
1990 revenues: $748,000
established 1919

Meadow Town Corp.*
Box 88
Meadow, Utah 84644
(801) 842-7281
James Starkey
customers: 148
1990 MWh generated: 0
1990 MWh purchased: 2,923
1990 MWh sold: 1,545
1990 revenues: $102,000
established 1910

Monroe City*
10 N. Main St., Box A
Monroe, Utah 84754
(801) 527-4621
Doug Gadd, Supervisor
customers: 682
nameplate capacity (kW): hydro: 620
1990 MWh generated: 2,994
1990 MWh purchased: 4,647
1990 MWh sold: 7,535
1990 revenues: $465,000

Morgan City Corp.*
48 W. Young St., Box 267, Room 32
Morgan, Utah 84050
(801) 829-3515
Dennis D. Woolsey, Power Superintendent
customers: 805
1990 MWh generated: 0
1990 MWh purchased: 11,311
1990 MWh sold: 9,569
1990 revenues: $449,000
established 1933

Mount Pleasant, City of*
115 W. Main St.
Mount Pleasant, Utah 84647
(801) 462-2456
Dan Anderson, Power Superintendent
customers: 950
nameplate capacity (kW): hydro: 325
1990 MWh generated: 2,256
1990 MWh purchased: 10,268
1990 MWh sold: 10,731
1990 revenues: $694,000
established 1913

Murray, City of*
153 W. 4800 South St.
Murray City, Utah 84107
(801) 264-9701
John Mohlman, General Manager
customers: 14,170
nameplate capacity (kW): hydro: 4,900; gas: 7,200; oil: 500
1990 MWh generated: 10,417
1990 MWh purchased: 268,983
1990 MWh sold: 255,909
1990 revenues: $15,912,000
established 1913

Nephi City Corp.*
21 E. First N.
Nephi, Utah 84648
(801) 623-0822
Lee Fowkes, Electrical Superintendent
customers: 1,425
nameplate capacity (kW): unavailable
1990 MWh generated: 2,679
1990 MWh purchased: 32,609
1990 MWh sold: 31,262
1990 revenues: $2,122,000
established 1906

Oak City, Town of*
Box 217
Oak City, Utah 84649
(801) 846-2018
DeAnn Steele, Treasurer
customers: 200
1990 MWh generated: 0
1990 MWh purchased: 3,684
1990 MWh sold: 2,707
1990 revenues: $131,000
established 1926

Paragonah Municipal Light Department*
Paragonah, Utah 84760
(801) 477-8164
William Johnson, Town Board Member
customers: 160
1990 MWh generated: 0
1990 MWh purchased: 1,573
1990 MWh sold: 1,484
1990 revenues: $71,000
established 1921

Parowan City Corp.*
Box 576
Parowan, Utah 84761
(801) 477-3331
Jim Burns, City Manager
customers: 963
nameplate capacity (kW): hydro: 1,200
1990 MWh generated: 2,777
1990 MWh purchased: 9,856
1990 MWh sold: 11,107
1990 revenues: $724,000
established 1929

Payson City Corp.*
439 W. Utah Ave.
Payson, Utah 84651
(801) 465-2580
Ronnie Crump, Electrical Superintendent
customers: 2,926
nameplate capacity (kW): unavailable
1990 MWh generated: 844
1990 MWh purchased: 46,411
1990 MWh sold: 39,483
1990 revenues: $2,658,000
established 1897

Price Municipal Corp.
185 E. Main St., Box 893
Price, Utah 84501
(801) 637-5010
Lou Colosimo, Mayor
customers: 3,515
1990 MWh generated: 0
1990 MWh purchased: 56,419
1990 MWh sold: 50,735
1990 revenues: $3,573,000
established 1931

Provo City Power†*
251 W. 800 N., Box 658
Provo, Utah 84601
(801) 379-6800
Ronald D. Rydman, Director of Energy
customers: 23,616
nameplate capacity (kW): coal: 35,400; gas: 10,000
1990 MWh generated: 0
1990 MWh purchased: 513,656
1990 MWh sold: 481,152
1990 revenues: $28,713,000
established 1940

St. George, City of*
175 E. 200 North
St. George, Utah 84770
(801) 634-5800
Wayne M. McArthur, Water & Power Director
customers: 10,998
nameplate capacity (kW): hydro: 372; oil: 20,688
1990 MWh generated: 3,533
1990 MWh purchased: 295,787
1990 MWh sold: 263,389
1990 revenues: $12,338,000
established 1942

Salem City Corp.*
30 W. 100 South St., Box 901
Salem, Utah 84653
(801) 423-2770
Paul J. Hair, City Recorder
customers: 780
1990 MWh generated: 0
1990 MWh purchased: 8,826
1990 MWh sold: 8,436
1990 revenues: $564,000
established 1922

UTAH *(continued)*

Santa Clara, City of*
2721 W. Santa Clara Drive, Box 699
Santa Clara, Utah 84765
(801) 673-6712
Paul Grimshaw, Councilman over Power
customers: unavailable
1990 MWh generated: unavailable
1990 MWh purchased: unavailable
1990 MWh sold: unavailable
1990 revenues: unavailable
established 1988

Spanish Fork, City of*
40 S. Main St.
Spanish Fork City, Utah 84660
(801) 798-3568
Jeff Foster, Power Superintendent
customers: 3,757
1990 MWh generated: 0
1990 MWh purchased: 58,400
1990 MWh sold: 55,000
1990 revenues: $4,183,000
established 1919

Spring City Corp.*
Box 189
Spring City, Utah 84662
(801) 462-2282
Kent Kummer, Power Manager
customers: 308
nameplate capacity (kW): unavailable
1990 MWh generated: 960
1990 MWh purchased: 1,980
1990 MWh sold: 2,200
1990 revenues: $141,000
established 1912

Springville, City of*
50 Main St., Box 32
Springville, Utah 84663
(801) 489-2752
Calvin J. Baxter, Electrical Superintendent
customers: 5,142
nameplate capacity (kW): hydro: 2,300; gas: 14,000
1990 MWh generated: 3,263
1990 MWh purchased: 104,852
1990 MWh sold: 91,157
1990 revenues: $5,900,000
established 1901

Strawberry Electric Service District*
Box 70
Payson, Utah 84651
(801) 465-9273
Gary A. Aitken, Clerk
customers: 2,022
1990 MWh generated: 0
1990 MWh purchased: 33,975
1990 MWh sold: 30,034
1990 revenues: $2,242,000
established 1986

Utah Associated Municipal Power Systems*
8722 S. 300 West
Sandy, Utah 84070
(801) 566-3938
Carolyn S. McNeil, General Manager
customers: wholesale only
nameplate capacity (kW): unavailable
1990 MWh generated: 417,533
1990 MWh purchased: 596,487
1990 MWh sold: wholesale: 856,505
1990 revenues: wholesale: $31,605,000
established 1980
(see expanded joint action agency section, page 140)

Utah Municipal Power Agency*
40 S. Main, P.O. Box 818
Spanish Fork, Utah 84660
(801) 798-7489
G. Richard Judd, General Manager
customers: wholesale only
nameplate capacity (kW): coal: 15,000
1990 MWh generated: 329,072
1990 MWh purchased: 381,402
1990 MWh sold: wholesale: 695,898
1990 revenues: wholesale: $23,080,000
established 1981
(see expanded joint action agency section, page 140)

Washington, City of*
111 N. 100 E., Box 575
Washington, Utah 84780
(801) 628-1666
Ralph McClure, City Manager
customers: unavailable
1990 MWh generated: unavailable
1990 MWh purchased: unavailable
1990 MWh sold: unavailable
1990 revenues: unavailable
established 1988

Vermont

Barton Village, Inc.†*
Main Street, Box D
Barton, Vt. 05822
(802) 525-4748
Superintendent
customers: 1,805
nameplate capacity (kW): hydro: 1,400; oil: 1,400
1990 MWh generated: 6,970
1990 MWh purchased:
from utilities: 10,919
from nonutilities: 431
1990 MWh sold: retail: 14,028
wholesale: 1,757
1990 revenues: retail: $1,030,000
wholesale: $48,000
established 1894

Burlington, City of†*
585 Pine St
Burlington, Vt. 05401
(802) 658-0300
Dale Pohlman, General Manager
customers: 18,145
nameplate capacity (kW): oil: 28,000; other: 34,500
1990 MWh generated: 80,576
1990 MWh purchased: 368,544
1990 MWh sold: retail: 326,109
wholesale: 84,857
1990 revenues: retail: $27,672,000
wholesale: $6,727,000
established 1905

Enosburg Water & Electric Department*
RR 4, Box 80
Enosburg Falls, Vt. 05450
(802) 933-5544
Ed Gil de Rubio, General Manager
customers: 1,304
nameplate capacity (kW): hydro: 800; oil: 900
1990 MWh generated: 4,226
1990 MWh purchased: 15,327
1990 MWh sold: 16,114
1990 revenues: $1,278,000
established 1928

Hardwick Electric Department*
Box 516
Hardwick, Vt. 05843
(802) 472-5201
Jack Young, General Manager
customers: 4,000
nameplate capacity (kW): hydro: 1,000; oil: 600
1990 MWh generated: 4,418
1990 MWh purchased:
from utilities: 27,914
from nonutilities: 201
1990 MWh sold: 30,397
1990 revenues: $2,492,000
established 1897

Hyde Park, Village of*
Box 190
Hyde Park, Vt. 05655
(802) 888-2310
Carmeline F. Williams, Clerk/Treasurer
customers: 961
1990 MWh generated: 0
1990 MWh purchased:
from utilities: 11,703
from nonutilities: 777
1990 MWh sold: retail: 9,197
wholesale: 2,487
1990 revenues: retail: $785,000
wholesale: $104,000
established 1895

Jacksonville, Village of
Jacksonville, Vt. 05342
(802) 368-2811
Julia B. Fox, Clerk/Treasurer
customers: 581
1990 MWh generated: 0
1990 MWh purchased: 5,217
1990 MWh sold: 4,761
1990 revenues: $462,000
established 1922

Johnson, Village of, Inc.
Box 603
Johnson, Vt. 05656
(802) 635-2301
Kenneth Phelps, Commissioner
customers: 766
1990 MWh generated: 0
1990 MWh purchased:
from utilities: 18,738
from nonutilities: 188
1990 MWh sold: retail: 16,793
wholesale: 1,181
1990 revenues: retail: $1,180,000
wholesale: $330,000
established 1894

Ludlow, Village of
Box 289
Ludlow, Vt. 05149
(802) 228-7766
Howard Barton, Superintendent
customers: 3,225
1990 MWh generated: 0
1990 MWh purchased: 43,035
1990 MWh sold: 40,600
1990 revenues: $3,576,000
established 1900

Lyndonville, Village of*
24 Main St.
Lyndonville, Vt. 05851
(802) 626-3366
Kenneth C. Mason, Manager
customers: 5,012
nameplate capacity (kW): hydro: 2,300; oil: 1,120; other: 460
1990 MWh generated: 9,676
1990 MWh purchased: 58,037
1990 MWh sold: retail: 56,507
wholesale: 3,975
1990 revenues: retail: $4,619,000
wholesale: $157,000
established 1896

Morrisville Water and Light Department*
18 Portland St., Box 325
Morrisville, Vt. 05661-0325
(802) 888-4961
James C. Fox, Manager
customers: 2,971
nameplate capacity (kW): hydro: 5,230
1990 MWh generated: 15,817
1990 MWh purchased:
from utilities: 43,209
from nonutilities: 1,332
1990 MWh sold: retail: 43,331
wholesale: 3,818
1990 revenues: retail: $3,492,000
wholesale: $323,000
established 1895

Northfield, Village of
26 S. Main St.
Northfield, Vt. 05663
(802) 485-5411
Theodore M. Nelson, Interim Manager
customers: 2,174
1990 MWh generated: 0
1990 MWh purchased: 25,017
1990 MWh sold: 21,953
1990 revenues: $2,021,000
established 1895

Orleans, Incorporated Village of
Memorial Square
Orleans, Vt. 05860
(802) 754-8584
Slayton R. Marsh, Superintendent
customers: 642
1990 MWh generated: 0
1990 MWh purchased: 15,536
1990 MWh sold: 13,992
1990 revenues: retail: $1,086,000
wholesale: $28,000
established 1925

Readsboro's Electric
Box 247
Readsboro, Vt. 05350
(802) 423-7010
Annette Caruso, Utility Clerk
customers: 317
1990 MWh generated: 0
1990 MWh purchased: 2,336
1990 MWh sold: 2,159
1990 revenues: $180,000
established 1936

Stowe, Village of
Main St., Box 190
Stowe, Vt. 05672
(802) 253-7215
Fred Hutchins, General Manager
customers: 2,873
1990 MWh generated: 0
1990 MWh purchased:
from utilities: 59,286
from nonutilities: 2,399
1990 MWh sold: retail: 52,078
wholesale: 3,195
1990 revenues: retail: $4,364,000
wholesale: $223,000
established 1896

Swanton, Village of*
120 First St.
Swanton, Vt. 05488
(802) 868-3397
George H. Lague, Village Manager
customers: 2,859
nameplate capacity (kW): hydro: 9,100
1990 MWh generated: 26,570
1990 MWh purchased: 29,239
1990 MWh sold: retail: 48,234
wholesale: 4,026
1990 revenues: retail: $4,134,000
wholesale: $209,000
established 1894

Vermont Public Power Supply Authority*
512 St. George Road, Box 425
Williston, Vt. 05495
(802) 878-5274
William J. Gallagher, General Manager
customers: wholesale only
nameplate capacity (kW): unavailable
1990 MWh generated: 30,463
1990 MWh purchased: 122,860

---

* Member, American Public Power Association
† Member, Demonstration of Energy-Efficient Developments Program

1990 MWh sold: wholesale: 153,323
1990 revenues: wholesale: $9,279,000
established 1979
(see expanded joint action agency section, page 140)

Virgin Islands

Virgin Islands Water & Power Authority*
Building #18 Sub Base, Box 1450
St. Thomas, Virgin Islands 00801
(809) 774-3552
Alberto Bruno-Vega, Executive Director
customers: 42,447
nameplate capacity (kW): unavailable
1990 MWh generated: 534,196
1990 MWh purchased: 0
1990 MWh sold: 460,445
1990 revenues: $40,286,000
established 1965

Virginia

(Systems designated (TVA) are distributors of Tennessee Valley Authority power and purchase all of their power from TVA.)

Bedford, City of*
215 E. Main St.
Bedford, Va. 24523
(703) 586-7171
Robert J. Schnabl, Electric Utility Director
customers: 5,805
nameplate capacity (kW): hydro: 6,212
1990 MWh generated: 23,846
1990 MWh purchased: 172,689
1990 MWh sold: 184,349
1990 revenues: $10,145,000
established 1911

Blackstone, Town of*
100 W. Elm, Box 311
Blackstone, Va. 23824
(804) 292-7251
J. Larry Palmore, Director of Public Utilities
customers: 1,860
1990 MWh generated: 0
1990 MWh purchased: 39,772
1990 MWh sold: 36,922
1990 revenues: $2,724,000
established 1927

Bristol, City of*
300 Lee St.
Bristol, Va. 24203-8100
(703) 645-8702
Thomas E. Adams, General Manager
customers: 14,248
1990 MWh generated: 0
1990 MWh purchased: 504,558 (TVA)
1990 MWh sold: 470,407
1990 revenues: $24,698,000
established 1945

Culpeper, Town of†*
118 W. Davis St.
Culpeper, Va. 22701-3092
(703) 825-1120
G. W. Griffin, Town Manager
customers: 2,357
nameplate capacity (kW): gas: 3,575; oil: 3,600
1990 MWh generated: 727
1990 MWh purchased: 46,700
1990 MWh sold: 45,243
1990 revenues: $3,116,000
established 1934

Danville, City of†*
418 Patton St., Box 3300
Danville, Va. 24543
(804) 799-5270
Duane Dahlquist, Director, Electric Division
customers: 44,349
nameplate capacity (kW): hydro: 10,125
1990 MWh generated: 44,125
1990 MWh purchased: 708,199
1990 MWh sold: 709,354
1990 revenues: $34,027,000
established 1886

Elkton, Town of†*
173 W. Spotswood Ave.
Elkton, Va. 22827
(703) 298-1330
Gerald K. Monger, Superintendent
customers: 947
1990 MWh generated: 0
1990 MWh purchased: 15,792
1990 MWh sold: 13,472
1990 revenues: $938,000

Franklin, City of*
Box 179
Franklin, Va. 23851
(804) 562-8568
David A. Howe, Director
customers: 4,764
1990 MWh generated: 0
1990 MWh purchased: 105,432
1990 MWh sold: 99,475
1990 revenues: $6,832,000
established 1892

Front Royal Electric Department
520-A E. Sixth St.
Front Royal, Va. 22630
(703) 635-3027
C. W. Fristoe Jr., Director
customers: 5,776
1990 MWh generated: 0
1990 MWh purchased: 109,632
1990 MWh sold: 97,534
1990 revenues: $5,354,000
established 1894

Harrisonburg, City of*
89 W. Bruce St.
Harrisonburg, Va. 22801
(703) 434-5361
Michael J. York, General Manager
customers: 13,268
1990 MWh generated: 0
1990 MWh purchased: 457,303
1990 MWh sold: 441,914
1990 revenues: $27,179,000
established 1957

Manassas, City of†*
8500 Public Works Drive, Box 560
Manassas, Va. 22110
(703) 257-8351
Philip L. Young, Director of Electric Utilities
customers: 11,819
nameplate capacity (kW): unavailable
1990 MWh generated: 1,900
1990 MWh purchased: 247,300
1990 MWh sold: 236,000
1990 revenues: $16,295,000
established 1912

Martinsville, City of†*
55 W. Church St.
Martinsville, Va. 24114
(703) 638-3971
Robert I. Corekin, Director
customers: 8,092
nameplate capacity (kW): hydro: 1,300
1990 MWh generated: 6,674
1990 MWh purchased: 202,823
1990 MWh sold: 199,970
1990 revenues: $9,245,000
established 1900

Radford, City of†*
701 17th St.
Radford, Va. 24141
(703) 731-3641
W. E. Willis, Director
customers: 6,100
nameplate capacity (kW): hydro: 1,000
1990 MWh generated: 5,014
1990 MWh purchased: 246,986
1990 MWh sold: 245,432
1990 revenues: $11,450,000
established 1922

Richlands, Town of*
217 Railroad Ave.
Richlands, Va. 24641
(703) 964-2567
Garnet Sword, Electrical Superintendent
customers: 2,900
1990 MWh generated: 0
1990 MWh purchased: 61,358
1990 MWh sold: 55,009
1990 revenues: $2,840,000

Salem, City of*
19 N. Broad St., Box 869
Salem, Va. 24153
(703) 375-3030
Doug Smith, Director
customers: 11,226
1990 MWh generated: 0
1990 MWh purchased:
  from utilities: 321,000
  from nonutilities: 2,000
1990 MWh sold: 307,000
1990 revenues: $15,481,000
established 1892

Virginia Tech Electric Service
1421 N. Main St., Shenandoah Shopping Center
Blacksburg, Va. 24060
(703) 231-6437
R. E. Powell, Assistant Director
customers: 5,228
nameplate capacity (kW): unavailable
1990 MWh generated: 12,494
1990 MWh purchased: 197,755
1990 MWh sold: 201,167
1990 revenues: $10,395,000
established 1893

Wakefield, Town of
Box 550
Wakefield, Va. 23888
(804) 899-2361
Marvin C. Stephenson, Superintendent of Utilities
customers: 564
1990 MWh generated: 0
1990 MWh purchased: 9,560
1990 MWh sold: 8,809
1990 revenues: $605,000
established 1922

Washington

Benton County, Public Utility District No. 1 of†*
Box 6270
Kennewick, Wash. 99336
(509) 582-2175
Donald R. Clayhold, Manager
customers: 32,352
1990 MWh generated: 0
1990 MWh purchased: 1,395,878
1990 MWh sold: 1,344,938
1990 revenues: $47,115,000
established 1934

Blaine, City of*
1200 Yew St., Box 490
Blaine, Wash. 98230
(206) 332-8820
Wayne Mathers, General Manager, Light Department
customers: 1,889
1990 MWh generated: 0
1990 MWh purchased: 52,455
1990 MWh sold: 51,237
1990 revenues: $2,081,000
established 1907

Cashmere, City of
101 Woodring St.
Cashmere, Wash. 98815
(509) 782-3513
David L. Simmer, City Superintendent
customers: 1,500
1990 MWh generated: 0
1990 MWh purchased: 51,075
1990 MWh sold: 50,747
1990 revenues: $915,000
established 1908

Centralia, City of*
1100 N. Tower Ave.
Centralia, Wash. 98531
(206) 736-7611
William C. Cummings, Director
customers: 7,875
nameplate capacity (kW): hydro: 12,000
1990 MWh generated: 87,727
1990 MWh purchased: 129,883
1990 MWh sold: 200,671
1990 revenues: $6,614,000
established 1895

Chelan County, Public Utility District No. 1 of†*
Box 1231, 327 N. Wenatchee Ave.
Wenatchee, Wash. 98801
(509) 663-8121
Gerald L. Copp, CEO/General Manager
customers: 29,578
nameplate capacity (kW): hydro: 1,951,350
1990 MWh generated: 10,082,480
1990 MWh purchased:
  from utilities: 221,912
  from nonutilities: 2
1990 MWh sold: retail: 1,120,434
  wholesale: 9,688,302
1990 revenues: retail: $21,328,000
  wholesale: $77,505,000
established 1936

Cheney, City of
112 Anderson Road
Cheney, Wash. 99004
(509) 235-7235
Tom G. Richardson, Director, Light Department
customers: 2,952
1990 MWh generated: 0
1990 MWh purchased: 101,770
1990 MWh sold: 93,867
1990 revenues: $3,783,000
established 1931

Chewelah, City of
E. 301 Clay, Box 258
Chewelah, Wash. 99109
(509) 935-8311
David L. Park, Electric Department Manager
customers: 996
1990 MWh generated: 0
1990 MWh purchased: 21,028
1990 MWh sold: 19,183
1990 revenues: $1,025,000
established 1929

Clallam County, Public Utility District No. 1 of†*
2419 Highway 101 E., Box 1090
Port Angeles, Wash. 98362
(206) 452-9771
Michael McInnes, Manager
customers: 20,610
1990 MWh generated: 0
1990 MWh purchased:
  from utilities: 469,213
  from nonutilities: 186
1990 MWh sold: 430,346
1990 revenues: $19,514,000
established 1944

WASHINGTON (continued)

Clark Public Utilities*
Box 8900
Vancouver, Wash. 98668
(206) 699-3000
W. Bruce Bosch, CEO/General Manager
customers: 102,702
1990 MWh generated: 0
1990 MWh purchased:
from utilities: 2,973,031
from nonutilities: 263,900
1990 MWh sold: 3,091,269
1990 revenues: $111,157,000
established 1938

Coulee Dam, City of
Box 156
Coulee Dam, Wash. 99116
(509) 633-1091
Sandra Bradley, Clerk
customers: 585
1990 MWh generated: 0
1990 MWh purchased: 16,941
1990 MWh sold: 15,292
1990 revenues: $462,000
established 1959

Cowlitz County, Public Utility District No. 1 of*
960 Commerce Ave., Box 3007
Longview, Wash. 98632
(206) 423-2210
J. Leon Smith, General Manager
customers: 38,124
nameplate capacity (kW): hydro: 70,000
1990 MWh generated: 232,581
1990 MWh purchased: 4,038,915
1990 MWh sold: retail: 4,147,027
wholesale: 36,707
1990 revenues: retail: $101,314,000
wholesale: $711,000
established 1936

Douglas County, Public Utility District No. 1 of*
1151 Valley Mall Parkway
East Wenatchee, Wash. 98802
(509) 884-7191
Eldon E. Landin, Chief Executive Officer/Manager
customers: 12,019
nameplate capacity (kW): hydro: 774,000
1990 MWh generated: 4,833,385
1990 MWh purchased: 201,639
1990 MWh sold: retail: 588,555
wholesale: 3,951,762
1990 revenues: retail: $8,521,000
wholesale: $22,258,000
established 1945

Eatonville, Town of
201 Center St. W., Box 309
Eatonville, Wash. 98328
(206) 832-3244
Stanley Dekofski, Electrical Supervisor
customers: 650
1990 MWh generated: 0
1990 MWh purchased: 19,341
1990 MWh sold: 17,632
1990 revenues: $770,000
established 1913

Ellensburg, City of*
420 N. Pearl St.
Ellensburg, Wash. 98926
(509) 962-7224
Doug Williams, City Manager
customers: 5,396
1990 MWh generated: 0
1990 MWh purchased: 156,366
1990 MWh sold: 149,755
1990 revenues: $5,998,000
established 1891

Ferry County, Public Utility District No. 1 of
686 S. Clark Ave., Box 1039
Republic, Wash. 99166
(509) 775-3325
Kenneth R. Coyle, Manager
customers: 2,377
1990 MWh generated: 0
1990 MWh purchased: 109,122
1990 MWh sold: 103,946
1990 revenues: $4,611,000
established 1936

Fircrest, Town of
115 Ramsdell St.
Tacoma, Wash. 98466
(206) 564-8900
Don Morrison, Town Manager
customers: 2,217
1990 MWh generated: 0
1990 MWh purchased: 43,494
1990 MWh sold: 41,956
1990 revenues: $1,809,000
established 1925

Franklin County, Public Utility District No. 1 of*
1411 W. Clark St., Box 2407
Pasco, Wash. 99302
(509) 547-5591
Kenneth A. Sugden, Manager
customers: 15,252
1990 MWh generated: 0
1990 MWh purchased: 607,992
1990 MWh sold: 572,295
1990 revenues: $20,385,000
established 1947

Grant County, Public Utility District No. 2 of†*
30 C. St. S.W., Box 878
Ephrata, Wash. 98823
(509) 754-3541
Jerry Rupke, Interim Manager
customers: 31,239
nameplate capacity (kW): hydro: 1,635,800
1990 MWh generated: 10,649,023
1990 MWh purchased: 265,198
1990 MWh sold: retail: 2,158,360
wholesale: 7,686,571
1990 revenues: retail: $32,178,000
wholesale: $49,274,000
established 1942

Grays Harbor County, Public Utility District No. 1 of†*
2720 Sumner Ave., Box 480
Aberdeen, Wash. 98520
(206) 532-4220
Stephen W. Romjue, General Manager
customers: 34,686
nameplate capacity (kW): coal: 53,190
1990 MWh generated: 323,497
1990 MWh purchased: 1,198,091
1990 MWh sold: retail: 1,116,832
wholesale: 323,497
1990 revenues: retail: $40,322,000
wholesale: $8,733,000
established 1938

Kittitas County, Public Utility District No. 1 of
1400 E. Vantage Highway
Ellensburg, Wash. 98926
(509) 925-3164
George Harmon, Manager
customers: 2,005
1990 MWh generated: 0
1990 MWh purchased: 45,000
1990 MWh sold: 39,500
1990 revenues: $1,872,000
established 1936

Klickitat County, Public Utility District No. 1 of*
1313 S. Columbus Ave.
Goldendale, Wash. 98620
(509) 773-5891
Alexander Thomson, General Manager
customers: 8,398
1990 MWh generated: 0
1990 MWh purchased:
from utilities: 253,520
from nonutilities: 660
1990 MWh sold: 239,150
1990 revenues: $10,041,000
established 1938

Lewis County, Public Utility District No. 1 of*
321 Northwest Pacific Ave., Box 330
Chehalis, Wash. 98532
(206) 748-9261
Gary H. Kalich, Manager
customers: 22,141
nameplate capacity (kW): unavailable
1990 MWh generated: 1,456
1990 MWh purchased: 681,203
1990 MWh sold: 643,200
1990 revenues: $24,264,000
established 1936

Mason County, Public Utility District No. 1 of*
N21971 Highway 101
Shelton, Wash. 98584
(206) 877-5249
Debbie Knipschield, Manager
customers: 3,882
1990 MWh generated: 0
1990 MWh purchased: 55,895
1990 MWh sold: 51,724
1990 revenues: $2,755,000
established 1935

Mason County, Public Utility District No. 3 of*
Third & Cota Sts., Box 490
Shelton, Wash. 98584
(206) 426-8255
Edwin E. Blakemore, Manager
customers: 21,093
1990 MWh generated: 0
1990 MWh purchased: 455,294
1990 MWh sold: retail: 431,652
wholesale: 135
1990 revenues: retail: $19,489,000
wholesale: $4,000
established 1934

McCleary, City of*
Box 360
McCleary, Wash. 98557
(206) 495-3667
Chris Brown, Assistant to the Mayor
customers: 875
1990 MWh generated: 0
1990 MWh purchased: 37,308
1990 MWh sold: 37,308
1990 revenues: $1,368,000
established 1948

Milton, City of
1000 Laurel St.
Milton, Wash. 98354
(206) 922-8738
Darwin L. Meyers, Public Works Director
customers: 2,165
1990 MWh generated: 0
1990 MWh purchased: 48,486
1990 MWh sold: 46,933
1990 revenues: $1,948,000
established 1945

Okanogan County, Public Utility District No. 1 of*
1331 N. Second Ave., Box 912
Okanogan, Wash. 98840
(509) 422-3310
Harlan Warner, Manager
customers: 17,408
1990 MWh generated: 0
1990 MWh purchased:
from utilities: 537,059
from nonutilities: 4,023
1990 MWh sold: 503,053
1990 revenues: $13,554,000
established 1945

Pacific County, Public Utility District No. 2 of*
405 Duryea St., Box 472
Raymond, Wash. 98577
(206) 942-2411
R. A. Mergens, Manager
customers: 13,322
1990 MWh generated: 0
1990 MWh purchased: 259,698
1990 MWh sold: 239,833
1990 revenues: $10,891,000
established 1940

Pend Oreille County, Public Utility District No. 1 of*
130 N. Washington, PO Box 190
Newport, Wash. 99156
(509) 447-3137
Larry Weis, Manager
customers: 4,052
nameplate capacity (kW): hydro: 60,600
1990 MWh generated: 504,043
1990 MWh purchased: 359,512
1990 MWh sold: retail: 711,761
wholesale: 150,753
1990 revenues: retail: $12,859,000
wholesale: $1,300,000
established 1948

Port Angeles, City of
321 E. Fifth St.
Port Angeles, Wash. 98362
(206) 457-0411
Bob Titus, Director
customers: 9,044
nameplate capacity (kW): unavailable
1990 MWh generated: 2,378
1990 MWh purchased: 670,876
1990 MWh sold: 661,453
1990 revenues: $18,582,000
established 1893

Richland, City of†*
505 Swift Blvd., Box 190
Richland, Wash. 99352
(509) 943-9161
Don Carter, Energy Services Director
customers: 15,109
1990 MWh generated: 0
1990 MWh purchased: 567,663
1990 MWh sold: 547,988
1990 revenues: $19,342,000
established 1958

Ruston, City of
5117 N. Winnifred St.
Ruston via Tacoma, Wash. 98407
(206) 759-3544
Gary McDonald, Superintendent
customers: 320
1990 MWh generated: 0
1990 MWh purchased: 5,426
1990 MWh sold: 4,687
1990 revenues: $163,000
established 1928

Seattle, City of†*
1015 3rd Ave.
Seattle, Wash. 98104
(206) 684-3200
Malcom Macdonald, Acting Superintendent
customers: 325,337
nameplate capacity (kW): coal: 106,380; hydro: 1,708,670
1990 MWh generated: 8,217,180
1990 MWh purchased: 3,428,622
1990 MWh sold: 8,997,016

---

* Member, American Public Power Association
† Member, Demonstration of Energy-Efficient Developments Program

1990 revenues: $284,463,000
established 1902

Skamania County, Public Utility District No. 1 of†*
Box 500
Carson, Wash. 98610
(509) 427-5126
William F. Yee, Manager
customers: 4,103
1990 MWh generated: 0
1990 MWh purchased: 115,972
1990 MWh sold: 110,653
1990 revenues: $4,302,000
established 1938

Snohomish County, Public Utility District No. 1 of†*
2320 California Ave., Box 1107
Everett, Wash. 98206
(206) 258-8211
Charles N. Earl, Manager
customers: 203,409
nameplate capacity (kW): coal: 106,380
1990 MWh generated: 1,058,075
1990 MWh purchased: 4,857,428
1990 MWh sold: retail: 5,429,691
wholesale: 109,019
1990 revenues: retail: $218,537,000
wholesale: $2,133,000
established 1949

Steilacoom, Town of
1030 Roe St.
Steilacoom, Wash. 98388
(206) 581-1912
Jim Richards, Director of Public Works
customers: 2,462
1990 MWh generated: 0
1990 MWh purchased: 41,071
1990 MWh sold: 38,361
1990 revenues: $1,694,000
established 1914

Sumas, City of
Box 9
Sumas, Wash. 98295
(206) 988-5711
Lawrence Silvis, Utility Superintendent
customers: 446
1990 MWh generated: 0
1990 MWh purchased: 13,585
1990 MWh sold: 12,560
1990 revenues: $536,000
established 1934

Tacoma, City of*
3628 S. 35th St., Box 11007
Tacoma, Wash. 98411
(206) 593-8200
E. E. Coates, Director of Utilities
customers: 127,479
nameplate capacity (kW): coal: 106,380; hydro: 700,200
1990 MWh generated: 3,594,341
1990 MWh purchased:
from utilities: 2,863,393
from nonutilities: 608,227
1990 MWh sold: retail: 5,526,347
wholesale: 1,328,742
1990 revenues: retail: $155,928,000
wholesale: $30,317,000
established 1893

Vera Irrigation District No. 15*
N. 601 Evergreen Road, Box 630
Veradale, Wash. 99037
(509) 924-3800
Joe W. Custer, General Manager
customers: 6,058
1990 MWh generated: 0
1990 MWh purchased: 161,332
1990 MWh sold: 154,527
1990 revenues: $5,523,000
established 1938

Wahkiakum County, Public Utility District No. 1 of*
45 River St., Box 248
Cathlamet, Wash. 98612
(206) 795-3266
M. E. (Mike) Prever, Manager
customers: 1,755
1990 MWh generated: 0
1990 MWh purchased: 33,814
1990 MWh sold: 30,753
1990 revenues: $1,551,000
established 1940

Washington Public Power Supply System*
Box 968
Richland, Wash. 99352
(509) 372-5000
Donald Mazur, Managing Director
customers: wholesale only
nameplate capacity (kW): nuclear: 2,060,000; hydro: 27,500
1990 MWh generated: 6,600,794
1990 MWh purchased: 0
1990 MWh sold: wholesale: 6,589,182
1990 revenues: wholesale: $564,638,000
established 1957
(see expanded joint action agency section, page 140)

Waterville, Town of
Box 580
Waterville, Wash. 98858
(509) 745-8871
Carl E. Koenig, Light Superintendent
customers: 591
1990 MWh generated: 0
1990 MWh purchased: 16,000
1990 MWh sold: 14,000
1990 revenues: $330,000
established 1902

Whatcom County, Public Utility District No. 1 of
2011 Young St.
Bellingham, Wash. 98225
(206) 733-5810
Tom Andersen, Manager
customers: 1
1990 MWh generated: 0
1990 MWh purchased: 146,276
1990 MWh sold: 131,886
1990 revenues: $3,160,000
established 1937

West Virginia

New Martinsville, City of†*
197 Main St.
New Martinsville, W.Va. 26155
(304) 455-3442
William L. Drennen, Electric Manager
customers: 2,421
1990 MWh generated: 0
1990 MWh purchased: 30,354
1990 MWh sold: 28,645
1930 revenues: $1,673,000
established 1929

Philippi, City of†*
108 N. Main St.
Philippi, W.Va. 26416
(304) 457-3701
Joseph P. Mattaliano, City Manager
customers: 1,721
1990 MWh generated: 0
1990 MWh purchased: 29,045
1990 MWh sold: 29,045
1990 revenues: $1,643,000
established 1891

Wisconsin

Algoma Utility Commission†*
520 Parkway Ave.
Algoma, Wis. 54201
(414) 487-5556
Roland C. LeCloux, Utility Manager
customers: 1,83[illegible]
1990 MWh generated: 0
1990 MWh purchased: 37,600
1990 MWh sold: 36,100
1990 revenues: $1,894,000
established 1903

Arcadia Electric Utility
115 S. Jackson St.
Arcadia, Wis. 54612
(608) 323-7347
Ronald L. Darbo, Superintendent
customers: 1,215
nameplate capacity (kW): gas: 6,090; oil: 3,053
1990 MWh generated: 594
1990 MWh purchased: 47,773
1990 MWh sold: 46,012
1990 revenues: $2,458,000
established 1903

Argyle Municipal Electric & Water Utility
401 Milwaukee St., Box 246
Argyle, Wis. 53504
(608) 543-3113
Randy Martin, Superintendent
customers: 464
nameplate capacity (kW): hydro: 50; oil: 2,272
1990 MWh generated: 196
1990 MWh purchased: 6,731
1990 MWh sold: 6,598
1990 revenues: $313,000
established 1905

Bangor Municipal Utility
106 15th Ave. N.
Bangor, Wis. 54614
(608) 486-2151
Wesley Kjome, Manager
customers: 1,451
1990 MWh generated: 0
1990 MWh purchased: 31,100
1990 MWh sold: 28,700
1990 revenues: $1,643,000
established 1932

Barron Light & Water Department*
1303 E Division Ave.
Barron, Wis. 54812
(715) 537-3855
Alan Junkers, Utility Manager
customers: 1,562
nameplate capacity (kW): hydro: 100; oil: 4,100
1990 MWh generated: 390
1990 MWh purchased: 35,149
1990 MWh sold: 33,029
1990 revenues: $1,676,000
established 1902

Belmont Light & Water Utility
222 Mound Ave., Box 6
Belmont, Wis. 53510
(608) 762-5142
Dan Van Natta, Public Works Director
customers: 425
1990 MWh generated: 0
1990 MWh purchased: 5,881
1990 MWh sold: 5,615
1990 revenues: $290,000
established 1900

Benton, Village of
Main Street, Box 91
Benton, Wis. 53803
(608) 759-3721
Darnell Hendricks, Clerk/Treasurer
customers: 443
1990 MWh generated: 0
1990 MWh purchased: 4,732
1990 MWh sold: 4,533
1990 revenues: $275,000

Black Earth Electric Utility
1210 Mills St., Box 347
Black Earth, Wis. 53515
(608) 767-2563
Dwane Garfoot, Director of Public Works
customers: 893
1990 MWh generated: 0
1990 MWh purchased: 11,815
1990 MWh sold: 11,251
1990 revenues: $694,000

Black River Falls, City of†*
119 N. Water St.
Black River Falls, Wis. 54615
(715) 284-9463
Loren Radcliffe, Utility Administrator
customers: 2,350
nameplate capacity (kW): hydro: 900; oil: 3,100
1990 MWh generated: 4,124
1990 MWh purchased: 42,178
1990 MWh sold: 44,027
1990 revenues: $2,092,000
established 1904

Bloomer Electric & Water
1503 Main St.
Bloomer, Wis. 54724
(715) 568-3331
Desiree L. Roff, Manager
customers: 1,702
1990 MWh generated: 0
1990 MWh purchased: 44,173
1990 MWh sold: 42,454
1990 revenues: $1,991,000
established 1908

Boscobel, City of†*
1031 Wisconsin Ave.
Boscobel, Wis. 53805
(608) 375-5002
Lionel Schlump, President
customers: 1,543
1990 MWh generated: 0
1990 MWh purchased: 27,950
1990 MWh sold: 26,825
1990 revenues: $1,378,000
established 1899

Brodhead Water & Light Commission
1108 11th St., Box 227
Brodhead, Wis. 53520
(608) 897-2505
Carroll Sheafor, Superintendent
customers: 1,637
1990 MWh generated: 0
1990 MWh purchased: 28,839
1930 MWh sold: 26,838
1990 revenues: $1,296,000
established 1913

Cadott, Village of
Box 40
Cadott, Wis. 54727
(715) 289-4282
Leona Hart, Secretary
customers: 660
1990 MWh generated: 0
1990 MWh purchased: 10,897
1990 MWh sold: 10,361
1990 revenues: $574,000
established 1901

Cashton, Village of
709 Main St.
Cashton, Wis. 54619
(608) 654-7828
John Hauser, Superintendent
customers: 457
nameplate capacity (kW): oil: 1,940
1990 MWh generated: -13
1990 MWh purchased: 6,076
1990 MWh sold: 5,820
1990 revenues: $321,000
established 1909

WISCONSIN *(continued)*

Cedarburg Light & Water Commission†*
N. 30 W. 5926 Lincoln Blvd.
Cedarburg, Wis. 53012
(414) 375-7650
Glenn W. Frank, Manager
customers: 4,955
1990 MWh generated: 0
1990 MWh purchased: 104,441
1990 MWh sold: 99,829
1990 revenues: $5,303,000
established 1901

Centuria Municipal Electric Utility
305 Wisconsin Ave., Box 280
Centuria, Wis. 54824
(715) 646-2300
Glenn Melin, President
customers: 371
1990 MWh generated: 0
1990 MWh purchased: 4,573
1990 MWh sold: 4,397
1990 revenues: $229,000
established 1946

Clintonville, City of
65 E. 12th St., Box 359
Clintonville, Wis. 54929
(715) 823-2118
John Schroeder, Superintendent
customers: 2,572
1990 MWh generated: 0
1990 MWh purchased: 55,549
1990 MWh sold: 53,690
1990 revenues: $2,875,000

Columbus, City of†*
361 N. Water St., Box 228
Columbus, Wis. 53925
(414) 623-5912
John Andler, Superintendent
customers: 2,117
1990 MWh generated: 0
1990 MWh purchased: 47,033
1990 MWh sold: 43,948
1990 revenues: $2,164,000
established 1898

Cornell, City of
Box 796
Cornell, Wis. 54732
(715) 239-3710
David DeJongh, Clerk/Treasurer
customers: 784
1990 MWh generated: 0
1990 MWh purchased: 12,052
1990 MWh sold: 11,471
1990 revenues: $646,000
established 1937

Cuba City, City of†*
108 N. Main St.
Cuba City, Wis. 53807
(608) 744-2152
Kathy H. Schultz, Clerk/Treasurer
customers: 918
1990 MWh generated: 0
1990 MWh purchased: 13,475
1990 MWh sold: 12,573
1990 revenues: $661,000
established 1921

Cumberland Municipal Utility*
1265 Second Ave., Box 726
Cumberland, Wis. 54829
(715) 822-2595
Charles Christensen, General Manager
customers: 1,180
nameplate capacity (kW): gas: 2,050; oil: 9,165
1990 MWh generated: 289
1990 MWh purchased: 31,176
1990 MWh sold: 29,788
1990 revenues: retail: $1,605,000
wholesale: $82,000
established 1898

Eagle River, City of†*
Box 218
Eagle River, Wis. 54521
(715) 479-8121
Lee McFaul, Manager
customers: 1,116
1990 MWh generated: 0
1990 MWh purchased: 24,000
1990 MWh sold: 22,980
1990 revenues: $1,326,000
established 1898

Elkhorn Light & Water†*
9 S. Broad St., Box 920
Elkhorn, Wis. 53121
(414) 723-2910
Michael Lange, Public Works Operations Supt.
customers: 2,783
1990 MWh generated: 0
1990 MWh purchased: 71,000
1990 MWh sold: 67,000
1990 revenues: $3,486,000
established 1898

Elroy, City of
225 Main St.
Elroy, Wis. 53929
(608) 462-8246
P. A. Kalodrich, Clerk
customers: 809
nameplate capacity (kW): oil: 2,725
1990 MWh generated: -185
1990 MWh purchased: 16,762
1990 MWh sold: 15,897
1990 revenues: $865,000
established 1930

Evansville Municipal Electric Utility
31 S. Madison St.
Evansville, Wis. 53536
(608) 882-5214
Randall Rasmussen, Manager
customers: 2,390
1990 MWh generated: 0
1990 MWh purchased: 45,038
1990 MWh sold: 42,687
1990 revenues: $2,186,000
established 1901

Fennimore, City of
860 Lincoln Ave.
Fennimore, Wis. 53809
(608) 822-6110
Charles J. Leuck, Director - Public Works
customers: 1,184
nameplate capacity (kW): oil: 2,123
1990 MWh generated: 54
1990 MWh purchased: 25,847
1990 MWh sold: 24,041
1990 revenues: $1,264,000
established 1904

Florence Utility Commission†*
500 Spring Ave., Box 109
Florence, Wis. 54121
(715) 528-3330
Robert Friberg, Manager
customers: 924
1990 MWh generated: 0
1990 MWh purchased: 12,193
1990 MWh sold: 11,497
1990 revenues: $703,000
established 1898

Gresham, Village of
Main Street, Box 50
Gresham, Wis. 54128-0050
(715) 787-3244
Edward R. Sigmund, Superintendent
customers: 905
nameplate capacity (kW): hydro: 700; oil: 500
1990 MWh generated: 3,203
1990 MWh purchased: 6,926
1990 MWh sold: 9,349
1990 revenues: $611,000
established 1928

Hartford, City of†*
109 N. Main St.
Hartford, Wis. 53027
(414) 673-8236
Leroy Wolf, Director of Utilities
customers: 3,545
1990 MWh generated: 0
1990 MWh purchased: 80,941
1990 MWh sold: 76,942
1990 revenues: $4,320,000
established 1912

Hazel Green, Village of
1610 Fairplay St., Box 367
Hazel Green, Wis. 53811
(608) 854-2953
James Kolbe, Superintendent
customers: 542
1990 MWh generated: 0
1990 MWh purchased: 6,682
1990 MWh sold: 6,270
1990 revenues: $347,000
established 1908

Hustisford, Village of†*
210 S. Lake St.
Hustisford, Wis. 53034-0345
(414) 349-3650
Richard Kirchoff, Superintendent
customers: 1,153
1990 MWh generated: 0
1990 MWh purchased: 15,993
1990 MWh sold: 15,089
1990 revenues: $861,000
established 1937

Jefferson Water & Electric Department†*
121 W. Racine St., Box 396
Jefferson, Wis. 53549
(414) 674-3313
Bruce Folbrecht, Superintendent
customers: 3,001
1990 MWh generated: 0
1990 MWh purchased: 122,445
1990 MWh sold: 120,327
1990 revenues: $5,306,000
established 1901

Juneau Utility Commission
150 Miller St., Box 163
Juneau, Wis. 53039
(414) 386-2521
Cheryl Giese, Clerk/Treasurer
customers: 868
1990 MWh generated: 0
1990 MWh purchased: 27,594
1990 MWh sold: 26,318
1990 revenues: $1,202,000
established 1914

Kaukauna Electric & Water Department†*
777 Island St., Box 1777
Kaukauna, Wis. 54130-0977
(414) 766-5721
Ernest J. Mullen, General Manager
customers: 9,430
nameplate capacity (kW): hydro: 22,300; gas: 18,000; oil: 6,000
1990 MWh generated: 142,173
1990 MWh purchased: 410,530
1990 MWh sold: 535,317
1990 revenues: $19,401,000
established 1912

Kiel Utilities†*
705A Washington St., Box 98
Kiel, Wis. 53042
(414) 894-2669
Richard W. Wright, Superintendent
customers: 1,736
1990 MWh generated: 0
1990 MWh purchased: 49,180
1990 MWh sold: 46,265
1990 revenues: $2,173,000
established 1905

La Farge Municipal Electric Co.
Main St.
La Farge, Wis. 54639
(608) 625-2333
Cecil Rolfe, Manager
customers: 536
1990 MWh generated: 0
1990 MWh purchased: 5,260
1990 MWh sold: 4,860
1990 revenues: $297,000

Lake Mills, City of†*
101 Church St.
Lake Mills, Wis. 53551
(414) 648-2344
Jean Stolsmark, City Manager
customers: 2,785
1990 MWh generated: 0
1990 MWh purchased: 53,770
1990 MWh sold: 50,878
1990 revenues: $2,599,000
established 1911

Lodi, City of†*
113 S. Main St., City Hall
Lodi, Wis. 53555
(608) 592-3246
Rodney Maier, Superintendent
customers: 1,196
1990 MWh generated: 0
1990 MWh purchased: 17,859
1990 MWh sold: 16,877
1990 revenues: $872,000
established 1894

Manitowoc Public Utilities†*
1303 S. 8th St., Box 1090
Manitowoc, Wis. 54221-1090
(414) 683-4641
Arlyn S. Libal, General Manager
customers: 15,408
nameplate capacity (kW): coal: 79,000; gas: 10,500
1990 MWh generated: 159,800
1990 MWh purchased: 270,473
1990 MWh sold: 416,997
1990 revenues: $22,368,000
established 1914

Marshfield Electric & Water Department*
2000 S. Roddis Ave.
Marshfield, Wis. 54449
(715) 387-1195
Joseph C. Pacovsky, Manager
customers: 11,086
nameplate capacity (kW): coal: 29,000; gas: 6,000
1990 MWh generated: 10,295
1990 MWh purchased: 291,632
1990 MWh sold: 288,187
1990 revenues: $15,448,000
established 1904

Mazomanie, Village of
133 Crescent St.
Mazomanie, Wis. 53560
(608) 795-2100
Wayne Janssen, President
customers: 631
1990 MWh generated: 0
1990 MWh purchased: 10,183
1990 MWh sold: 9,814
1990 revenues: $532,000
established 1894

Medford Electric Utility*
330 S. Whelen Ave., Box 358
Medford, Wis. 54451-0358
(715) 748-3211
Michael A. Frey, Manager
customers: 2,769
1990 MWh generated: 0
1990 MWh purchased: 90,005

---

* Member, American Public Power Association
† Member, Demonstration of Energy-Efficient Developments Program

1990 MWh sold: 86,466
1990 revenues: $3,946,000
established 1944

Menasha Electric & Water Utilities†*
321 Milwaukee, Box 340
Menasha, Wis. 54952
(414) 751-5180
Robert E. Hogan, General Manager
customers: 6,551
nameplate capacity (kW): coal: 22,000; oil: 1,000
1990 MWh generated: 49,439
1990 MWh purchased: 444,200
1990 MWh sold: 432,339
1990 revenues: $17,165,000
established 1905

Merrillan, City of
101 S. Main St.
Merrillan, Wis. 54754
(715) 333-2322
Ted B. Meinholdt, Superintendent
customers: 321
nameplate capacity (kW): hydro: 100; oil: 814
1990 MWh generated: 14
1990 MWh purchased: 3,066
1990 MWh sold: 3,067
1990 revenues: $183,000
established 1904

Mount Horeb, Village of*
138 E. Main St.
Mount Horeb, Wis. 53572
(608) 437-3084
Dennis L. Shaw, Superintendent
customers: 2,301
1990 MWh generated: 0
1990 MWh purchased: 38,070
1990 MWh sold: 36,682
1990 revenues: $1,807,000
established 1939

Muscoda, City of†*
206 N. Wisconsin Ave.
Muscoda, Wis. 53573
(608) 739-3390
Jay R. Goers, Superintendent
customers: 916
nameplate capacity (kW): hydro: 60; oil: 97; other: 2,000
1990 MWh generated: 44
1990 MWh purchased:
  from utilities: 17,585
  from nonutilities: 1,720
1990 MWh sold: 17,557
1990 revenues: $1,012,000
established 1907

New Glarus, Village of
313 2nd St.
New Glarus, Wis. 53574
(608) 527-2913
Russell Reuter, Manager
customers: 973
1990 MWh generated: 0
1990 MWh purchased: 16,848
1990 MWh sold: 16,094
1990 revenues: $739,000
established 1902

New Holstein, City of†*
2110 Washington St.
New Holstein, Wis. 53061
(414) 898-5776
Ronald Greuel, Superintendent
customers: 2,012
1990 MWh generated: 0
1990 MWh purchased: 59,304
1990 MWh sold: 58,000
1990 revenues: $2,956,000
established 1912

New Lisbon Municipal Light and Water Department
218 E. Bridge St.
New Lisbon, Wis. 53950
(608) 562-3103
Patricia M. Schroeder, Clerk
customers: 762
nameplate capacity (kW): oil: 4,622
1990 MWh generated: 118
1990 MWh purchased: 14,340
1990 MWh sold: 14,138
1990 revenues: $758,000
established 1911

New London Electric & Water Utility†*
400 E. North Water St., Box 304
New London, Wis. 54961
(414) 982-8516
Stephen M. Thompson, Manager
customers: 3,175
1990 MWh generated: 0
1990 MWh purchased: 156,882
1990 MWh sold: 152,705
1990 revenues: $6,700,000
established 1903

New Richmond, City of†*
156 E. 1st St.
New Richmond, Wis. 54017
(715) 246-4167
Dennis Horner, Administrator
customers: 2,564
1990 MWh generated: 0
1990 MWh purchased: 55,139
1990 MWh sold: retail: 54,040
  wholesale: 48
1990 revenues: retail: $2,346,000
  wholesale: $12,000
established 1890

Oconomowoc, City of†*
174 E. Wisconsin Ave.
Oconomowoc, Wis. 53066
(414) 569-2198
Bruce Campbell, Director of Utilities
customers: 6,094
1990 MWh generated: 0
1990 MWh purchased: 145,177
1990 MWh sold: 141,311
1990 revenues: $7,125,000
established 1900

Oconto Falls Water & Light Commission†*
104 S. Franklin St.
Oconto Falls, Wis. 54154
(414) 846-4505
Gary Haltaufderheide, City Clerk
customers: 1,331
1990 MWh generated: 0
1990 MWh purchased: 24,135
1990 MWh sold: 23,323
1990 revenues: $1,201,000
established 1933

Pardeeville, Village of
124 Lake St.
Pardeeville, Wis. 53954
(608) 429-3054
Bob Selchert, Director, Public Works
customers: 1,003
nameplate capacity (kW): unavailable
1990 MWh generated: 173
1990 MWh purchased: 15,917
1990 MWh sold: 15,384
1990 revenues: $715,000
established 1945

Plymouth, City of*
12 S. Milwaukee St., Box 277
Plymouth, Wis. 53073-0277
(414) 893-1471
John T. MacKinnon, Manager
customers: 5,757
1990 MWh generated: 0
1990 MWh purchased: 148,682
1990 MWh sold: 142,206
1990 revenues: $6,855,000
established 1895

Prairie du Sac, Village of
560 Park Ave.
Prairie du Sac, Wis. 53578
(608) 643-3133
Richard B. Bensenberg, Superintendent, Public Works
customers: 1,087
1990 MWh generated: 0
1990 MWh purchased: 29,235
1990 MWh sold: 28,996
1990 revenues: $1,571,000
established 1918

Princeton, City of
438 W. Main St.
Princeton, Wis. 54968
(414) 292-6612
Donna Scheuers, Clerk
customers: 858
1990 MWh generated: 0
1990 MWh purchased: 10,608
1990 MWh sold: 9,992
1990 revenues: $650,000
established 1902

Reedsburg Utility Commission
344 S. Willow St.
Reedsburg, Wis. 53959
(608) 524-4381
David Mikonowicz, Superintendent
customers: 3,062
1990 MWh generated: 0
1990 MWh purchased: 136,000
1990 MWh sold: 133,100
1990 revenues: $5,885,000
established 1894

Rice Lake, City of
320 W. Coleman St.
Rice Lake, Wis. 54868
(715) 234-7004
Dan Rodamaker, Director
customers: 4,359
1990 MWh generated: 0
1990 MWh purchased: 108,016
1990 MWh sold: 103,435
1990 revenues: $5,227,000
established 1920

Richland Center, City of*
161 N. Central Ave., Box 312
Richland Center, Wis. 53581
(608) 647-3844
Richard J. Steiner, Administrator
customers: 2,764
1990 MWh generated: 0
1990 MWh purchased: 69,357
1990 MWh sold: 66,463
1990 revenues: $3,042,000
established 1904

River Falls, City of†*
125 E. Elm St.
River Falls, Wis. 54022-0906
(715) 425-6715
Duane Hanson, Utility Director
customers: 3,894
nameplate capacity (kW): hydro: 475; oil: 13,057
1990 MWh generated: 3,995
1990 MWh purchased: 80,765
1990 MWh sold: 78,875
1990 revenues: retail: $4,083,000
  wholesale: $346,000
established 1900

Sauk City, City of
726 Water St.
Sauk City, Wis. 53583
(608) 643-8336
Donald Moen, Superintendent
customers: 1,545
1990 MWh generated: 0
1990 MWh purchased: 28,513
1990 MWh sold: 27,002
1990 revenues: $1,446,000
established 1909

Shawano Municipal Utilities*
122 N. Sawyer St., Box 436
Shawano, Wis. 54166
(715) 526-3131
Nils V. Holmgren, General Manager
customers: 4,624
1990 MWh generated: 0
1990 MWh purchased:
  from utilities: 165,313
  from nonutilities: 106
1990 MWh sold: 161,862
1990 revenues: $7,154,000
established 1900

Sheboygan Falls Utilities
511 Adams Street
Sheboygan Falls, Wis. 53085
(414) 467-7906
Dale Lythjohan, Director
customers: 2,960
1990 MWh generated: 0
1990 MWh purchased:
  from utilities: 158,044
  from nonutilities: 129
1990 MWh sold: 153,866
1990 revenues: $6,110,000
established 1916

Shullsburg, City of
112 S. Gratiot St.
Shullsburg, Wis. 53586
(608) 965-4901
Patricia Van Glahn, Clerk
customers: 691
1990 MWh generated: 0
1990 MWh purchased: 8,778
1990 MWh sold: 8,387
1990 revenues: $458,000
established 1937

Slinger, Village of†*
220 Slinger Road
Slinger, Wis. 53086
(414) 644-5265
Dean Otte, Manager
customers: 911
1990 MWh generated: 0
1990 MWh purchased: 19,479
1990 MWh sold: 18,457
1990 revenues: $1,082,000
established 1911

Spooner, City of
515 Summit St., Box 200
Spooner, Wis. 54801
(715) 635-2327
Alan R. Cusick, Superintendent
customers: 1,471
1990 MWh generated: 0
1990 MWh purchased: 27,177
1990 MWh sold: 25,335
1990 revenues: $1,339,000
established 1905

Stoughton, City of*
211 Water St., Box 383
Stoughton, Wis. 53589
(608) 873-3379
Robert P. Kardasz, Director of Public Works
customers: 5,993
1990 MWh generated: 0
1990 MWh purchased: 98,767
1990 MWh sold: 92,998
1990 revenues: $4,735,000
established 1891

Stratford Electric & Water
212 S. 3rd Ave., Box 12
Stratford, Wis. 54484
(715) 687-4118
Kevin Breit, Superintendent
customers: 655
1990 MWh generated: 0

---

* Member, American Public Power Association
† Member, Demonstration of Energy-Efficient Developments Program

1990 MWh purchased: 9,792
1990 MWh sold: 9,215
1990 revenues: $527,000
established 1925

Sturgeon Bay Combined Utilities†*
230 E. Vine St., Box 259
Sturgeon Bay, Wis. 54235
(414) 743-5542
William Baudhuin, General Manager
customers: 7,066
1990 MWh generated: 0
1990 MWh purchased: 129,940
1990 MWh sold: 124,514
1990 revenues: $7,088,000
established 1904

Sun Prairie Water & Light Commission†*
125 W. Main St., Box 385
Sun Prairie, Wis. 53590
(608) 837-5500
Larry Bocock, Superintendent
customers: 6,216
1990 MWh generated: 0
1990 MWh purchased: 124,485
1990 MWh sold: 119,112
1990 revenues: $5,264,000
established 1910

Trempealeau, Village of
50 E. Third St.
Trempealeau, Wis. 54661
(608) 534-6434
Norma Van Vleet, Clerk
customers: 791
1990 MWh generated: 0
1990 MWh purchased: 9,600
1990 MWh sold: 8,700
1990 revenues: $463,000
established 1915

Two Rivers Water & Light Department†*
1415 Lake St.
Two Rivers, Wis. 54241
(414) 793-5550
William C. T. Pappathopoulos, Utilities Director
customers: 5,803
1990 MWh generated: 0
1990 MWh purchased: 85,392
1990 MWh sold: 79,092
1990 revenues: $4,355,000
established 1901

Viola Municipal Electric Utility
Main Street, Box 38
Viola, Wis. 54664
(608) 627-1829
Kirby Hamilton, Manager
customers: 387
nameplate capacity (kW): oil: 1,100
1990 MWh generated: 16
1990 MWh purchased: 4,121
1990 MWh sold: 3,906
1990 revenues: $224,000

Waterloo Light & Water Commission†*
122 S. Monroe St.
Waterloo, Wis. 53594
(414) 478-2260
John M. Foley, Superintendent
customers: 1,484
1990 MWh generated: 0
1990 MWh purchased: 54,515
1990 MWh sold: 49,577
1990 revenues: $2,331,000
established 1908

Waunakee, Village of†*
205 Klein Drive, Box 95
Waunakee, Wis. 53597
(608) 849-8111
Ed Brockner, Superintendent
customers: 2,463
1990 MWh generated: 0
1990 MWh purchased: 47,123
1990 MWh sold: 44,635
1990 revenues: $2,154,000
established 1915

Waupun, City of†*
220 N. Forest St.
Waupun, Wis. 53963
(414) 324-7920
Dennis Westhuis, Manager
customers: 3,490
1990 MWh generated: 0
1990 MWh purchased: 68,229
1990 MWh sold: 65,519
1990 revenues: $3,007,000
established 1894

Westby, City of†*
104 First St.
Westby, Wis. 54667
(608) 634-3416
Dean Warren, Supervisor
customers: 915
1990 MWh generated: 0
1990 MWh purchased: 17,000
1990 MWh sold: 16,000
1990 revenues: $837,000
established 1915

Whitehall, City of†*
1631 Main St., Box 155
Whitehall, Wis. 54773
(715) 538-4353
Lynn Johnson, Clerk/Treasurer
customers: 874
1990 MWh generated: 0
1990 MWh purchased: 25,791
1990 MWh sold: 22,867
1990 revenues: $1,165,000
established 1940

Wisconsin Public Power, Inc. SYSTEM†*
1425 Corporate Center Drive
Sun Prairie, Wis. 53590
(608) 837-2653
Roy Thilly, General Manager and Counsel
customers: wholesale only
1990 MWh generated: 0
1990 MWh purchased: 2,541,824
1990 MWh sold: wholesale: 2,541,824
1990 revenues: wholesale: $94,650,000
established 1980
(see expanded joint action agency section, page 138)

Wisconsin Dells, City of
300 La Crosse St.
Wisconsin Dells, Wis. 53965
(608) 253-2542
Mike Horkan, Director of Public Works
customers: 1,699
1990 MWh generated: 0
1990 MWh purchased: 40,007
1990 MWh sold: 37,269
1990 revenues: $1,904,000
established 1894

Wisconsin Rapids Water Works & Lighting Commission*
221 16th St. S., Box 399
Wisconsin Rapids, Wis. 54494-0399
(715) 423-6300
William H. Stacy, General Manager
customers: 11,043
1990 MWh generated: 0
1990 MWh purchased: 192,970
1990 MWh sold: 182,380
1990 revenues: $9,531,000
established 1890

Wonewoc, Village of
Box 37
Wonewoc, Wis. 53968
(608) 464-3114
Donald Hubele, Chairman
customers: 457
1990 MWh generated: 0
1990 MWh purchased: 6,678
1990 MWh sold: 6,251
1990 revenues: $284,000

Wyoming

Basin, Town of
Box 599
Basin, Wyo. 82410
(307) 568-3331
Richard Sanders, Electric Deparment Head
customers: 581
1990 MWh generated: 0
1990 MWh purchased: 9,054
1990 MWh sold: 6,638
1990 revenues: $397,000
established 1902

Cody, City of†
1338 Rumsey Ave.
Cody, Wyo. 82414
(307) 527-7511
Neal T. Olson, Electrical Superintendent
customers: 3,708
1990 MWh generated: 0
1990 MWh purchased: 65,371
1990 MWh sold: 59,568
1990 revenues: $3,010,000
established 1935

Deaver, City of
180 First St., Box 207
Deaver, Wyo. 82421
(307) 664-2256
Craig Sorenson, Mayor
customers: 69
1990 MWh generated: 0
1990 MWh purchased: 657
1990 MWh sold: 553
1990 revenues: $36,000

Fort Laramie, Town of†
Box 177
Fort Laramie, Wyo. 82212
(307) 838-2711
Vicki Bowsher, Clerk-Treasurer
customers: wholesale only
1990 MWh generated: 0
1990 MWh purchased: 1,238
1990 MWh sold: wholesale: 950
1990 revenues: wholesale: $60,000

Gillette, City of*
Box 3003
Gillette, Wyo. 82717-3003
(307) 686-5265
Jon C. Young, Director of Utilities
customers: 7,826
1990 MWh generated: 0
1990 MWh purchased: 174,362
1990 MWh sold: 159,404
1990 revenues: $9,378,000
established 1915

Guernsey, Town of†*
Box 667
Guernsey, Wyo. 82214
(307) 836-2522
Doris Frederick, Clerk/Treasurer
customers: 639
1990 MWh generated: 0
1990 MWh purchased: 8,004
1990 MWh sold: 6,080
1990 revenues: $460,000

Lingle, Town of†
Box 448
Lingle, Wyo. 82223
(307) 837-2422
Dorothy Vollmer, Clerk/Treasurer
customers: 294
1990 MWh generated: 0
1990 MWh purchased: 3,100
1990 MWh sold: 2,625
1990 revenues: $183,000

Lusk, Town of†
North Main Street, Box 390
Lusk, Wyo. 82225
(307) 334-3612
Al Titchener, Superintendent of Public Works
customers: 936
1990 MWh generated: 0
1990 MWh purchased: 13,515
1990 MWh sold: 13,026
1990 revenues: $567,000
established 1919

Midvale Irrigation District
Box 128
Pavillion, Wyo. 82523
(307) 856-6359
Shari Abney, Bookkeeper
customers: 8
1990 MWh generated: 0
1990 MWh purchased: 233
1990 MWh sold: 107
1990 revenues: $1,000

Pine Bluffs, City of†
210 E. Fourth
Pine Bluffs, Wyo. 82082
(307) 245-3746
Ronald Spier, Superintendent
customers: 572
1990 MWh generated: 0
1990 MWh purchased: 7,431
1990 MWh sold: 6,713
1990 revenues: $414,000
established 1910

Powell, City of†*
270 N. Clark, Box 1008
Powell, Wyo. 82435
(307) 754-5106
Aaron Pfister, Electrical Superintendent
customers: 2,409
1990 MWh generated: 0
1990 MWh purchased: 38,968
1990 MWh sold: 33,695
1990 revenues: $2,054,000

Torrington, City of*
2042 E. A St.
Torrington, Wyo. 82240
(307) 532-5666
Ed Jolovich, Mayor
customers: 3,426
1990 MWh generated: 0
1990 MWh purchased: 69,647
1990 MWh sold: 62,279
1990 revenues: $2,749,000
established 1914

Wheatland, Town of†
600 9th St.
Wheatland, Wyo. 82201
(307) 322-2962
Barry Cook, Clerk
customers: 1,828
1990 MWh generated: 0
1990 MWh purchased: 27,873
1990 MWh sold: 23,864
1990 revenues: $1,192,000
established 1936

Wyoming Municipal Power Agency†*
Box 900
Lusk, Wyo. 82225
(307) 334-2170
Larry LaMaack, Executive Director
customers: wholesale only
nameplate capacity (kW): coal: 23,430
1990 MWh generated: 145,414
1990 MWh purchased: 57,383
1990 MWh sold: wholesale: 195,009
1990 revenues: wholesale: $5,250,000
established 1974
(see expanded joint action agency section, page 140)

Joint Action Agencies

Editor's Note: Joint action agencies that sell wholesale power also are listed in our state-by-state section for state and local publicly owned electric utilities. Sales and revenue data for those agencies appear in that section.

Alabama

Alabama Municipal Electric Authority+*
555 S. Perry St., Suite 210,
Drawer 5220
Montgomery, Ala. 36103
(205) 262-1126
Robert W. Claussen, General Manager
members: Alexander City, Dothan, Fairhope, Foley, LaFayette, Lanett, Luverne, Opelika, Piedmont, Sylacauga, Tuskegee
services: power supply, load forecasting, wheeling arrangements, lobbying, financial studies, FERC case support, load management

Alaska

Thomas Bay Power Authority
Box 1318
Wrangell, Alaska 99929
(907) 874-3834
Warren Edgley, General Manager
members: Petersburg, Wrangell
services: power supply, transmission

Arizona

Arizona Power Pooling Association*
1201 S. Alma School Rd., Suite 7550
Mesa, Ariz. 85210
(602) 962-4266
Charles Reinhold, Executive Director
members: Arizona Electric Power Cooperative, City of Mesa, Electrical District No. 2 of Pinal County
services: power supply

Dine Power Authority
Box 2577
Window Rock, Ariz. 86515
(602) 871-2133
Jerry Elwood, Community Relations Manager
services: Dine Power Authority is a subsidiary of the Navajo Nation. It is investigating the feasibility of future construction of electric generating facilities.

California

Central California Power Agency No. 1
Box 15830
Sacramento, Calif. 95852-1830
(916) 732-5976
Eric J. Haemer, Chairman
members: Modesto Irrigation District, Santa Clara, Sacramento Municipal Utility District
services: power supply

M-S-R Public Power Agency
Box 4060
Modesto, Calif. 95352
(209) 526-7373
Kenneth H. McKinney, General Manager
members: Modesto Irrigation District, Redding, Santa Clara.
services: power supply, joint financing, wheeling arrangements, engineering, legal assistance, public relations, financial studies, FERC case support, environmental regulations compliance, financial guidance, shared management

Northern California Power Agency*
180 Cirby Way
Roseville, Calif. 95678
(916) 781-3636
Michael McDonald, General Manager
members: Alameda, Biggs, Gridley, Healdsburg, Lodi, Lompoc, Palo Alto, Plumas-Sierra Rural Electric Cooperative, Redding, Roseville, Santa Clara, Truckee-Donner Public Utilities District, Turlock Irrigation District, Ukiah
services: power supply, joint financing, load forecasting, wheeling arrangements, load research, lobbying, engineering, legal assistance, public relations, rate design and cost-of-service studies, computer support, FERC case support, safety and training, environmental regulations compliance, financial guidance, transmission and distribution assistance

Southern California Public Power Authority*
200 S. Los Robles, Suite 155
Pasadena, Calif. 91101
(818) 793-9364
Linda M. Lazzerino, Executive Director
members: Anaheim, Azusa, Banning, Burbank, Colton, Glendale, Imperial Irrigation District, Los Angeles, Pasadena, Riverside, Vernon.
services: joint financing

Southern California Utility Power Pool
111 N. Hope St., Room 1255, Box 111
Los Angeles, Calif. 90051
(213) 481-6003
Raymond C. Burt

Transmission Agency of Northern California (TANC)
Box 15129
Sacramento, Calif. 95851-0129
(916) 852-1673
Lloyd Harvego, Executive Director
members: Alameda, Biggs, Gridley, Healdsburg, Lodi, Lompoc, Modesto Irrigation District, Palo Alto, Plumas-Sierra Rural Electric Cooperative, Redding, Roseville, Sacramento Municipal Utility District, Santa Clara, Turlock Irrigation District, Ukiah.
services: Agency is the project manager and a participant in the California-Oregon Transmission Project, a 340-mile, 500-kV line scheduled to be energized in 1993.

Tri-Dam Power Authority*
Box 1158
Pinecrest, Calif. 95364
(209) 965-3996
D. B. Thompson, General Manager
members: Oakdale Irrigation District, South San Joaquin Irrigation District
services: power supply (all power sold to Pacific Gas & Electric Co.)

Colorado

Arkansas River Power Authority*
3409 S. Main St., Box 70
Lamar, Colo. 81052
(719) 336-3496
James M. Henderson, General Manager
members: Colorado: Holly, La Junta, Lamar, Las Animas, Springfield, Trinidad; New Mexico: Raton.
services: power supply, joint financing, wheeling arrangements, newsletter, lobbying

Platte River Power Authority+*
Timberline & Horsetooth Roads
Fort Collins, Colo. 80525
(303) 226-4000
Thaine J. Michie, General Manager
members: Estes Park, Fort Collins, Longmont, Loveland
services: power supply, wheeling arrangements, engineering assistance, FERC case support, transmission, and economic development assistance

Connecticut

Connecticut Municipal Electric Energy Cooperative+*
30 Stott Ave.
Norwich, Conn. 06360-1535
(203) 889-4088
Maurice R. Scully, Executive Director
members: Groton, Norwich, Jewett City, Third Taxing District of the City of Norwalk, South Norwalk Electric Works
services: power supply, joint financing, load forecasting, wheeling arrangements, load research, newsletter, lobbying, demand-side management, public relations, rate design and cost-of-service studies, computer support, FERC case support, circuit rider

Delaware

Delaware Municipal Electric Corporation
c/o City of Newark, Box 390
Newark, Del. 19715
(302) 366-7080
Albert K. Martin, President
members: Clayton, Middletown, Milford, New Castle, Newark, Smyrna
services: power supply, wheeling arrangements, load forecasting

Florida

Florida Municipal Power Agency*
7201 Lake Ellenor Drive, Suite 100
Orlando, Fla. 32809
(407) 859-7310
Claude L'Engle, General Manager
members: Alachua, Bartow, Bushnell, Clewiston, Fort Meade, Fort Pierce, Gainesville, Green Cove Springs, Havana, Homestead, Jacksonville Beach, Key West, Kissimmee, Lakeland, Lake Worth, Leesburg, Moore Haven, Mount Dora, Newberry, New Smyrna Beach, Ocala, St. Cloud, Sebring, Starke, Tallahassee, Vero Beach, Wauchula, Williston
services: power supply and planning, joint financing, load forecasting, wheeling arrangements, newsletter, demand-side management, engineering, transmission and distribution assistance

Georgia

Municipal Electric Authority of Georgia*
1470 Riveredge Parkway, N.W.
Atlanta, Ga. 30328
(404) 952-5445
Donald L. Stokley, President & General Manager
members: Adel, Albany, Barnesville, Blakely, Brinson, Buford, Cairo, Calhoun, Camilla, Cartersville, College Park, Commerce, Covington, Crisp County, Doerun, Douglas, East Point, Elberton, Ellaville, Fairburn, Fitzgerald, Forsyth, Fort Valley, Grantville, Griffin, Hogansville, Jackson, LaFayette, LaGrange, Lawrenceville, Mansfield, Marietta, Monroe, Monticello, Moultrie, Newnan, Norcross, Oxford, Palmetto, Quitman, Sandersville, Sylvania, Sylvester, Thomaston, Thomasville, Washington, West Point, Whigham
services: power supply, load forecasting, wheeling arrangements, load research, newsletter, lobbying, demand-side management, engineering, legal assistance, public relations, rate design and cost-of-service studies, financial studies, safety and training, environmental regulations compliance, transmission and distribution assistance, joint equipment purchasing, economic development, shared management, storm mutual aid

Illinois

Illinois Municipal Electric Agency*
919 S. Spring
Springfield, Ill. 62704
(217) 789-4632
Frank G. Madonia, General Manager
members: Altamont, Bethany, Breese, Bushnell, Cairo, Carlyle, Carmi, Casey, Chatham, Farmer City, Flora, Freeburg, Highland, Ladd, Marshall, Mascoutah, Metropolis, Oglesby, Peru, Princeton, Rantoul, Riverton, Rochelle, Rock Falls, Roodhouse, St. Charles, Springfield, Sullivan, Waterloo, Winnetka
services: power supply and transmission, load forecasting, wheeling arrangements, engineering assistance, state and federal legislative lobbying, newsletter, public relations

Indiana

Indiana Municipal Power Agency*
11610 N. College Ave.
Carmel, Ind. 46032
(317) 573-9955
Raj Rao, General Manager
members: Advance, Anderson, Bainbridge, Bargersville, Centerville, Columbia City, Covington, Crawfordsville, Darlington, Edinburgh, Flora, Frankfort, Frankton, Greendale, Greenfield, Jamestown, Ladoga, Lawrenceburg, Lebanon, Linton, Middletown, Paoli, Pendleton, Peru, Rensselaer, Richmond, Rising Sun, Scottsburg, Tipton, Washington, Waynetown

services: power supply, load forecasting, load research, demand-side management, engineering, public relations, FERC case support, economic development

Iowa

Missouri Basin Municipal Electric Cooperative Association
125 Central Ave. S.E.
Orange City, Iowa 51041
(712) 737-4885
Harold Schiebout, President
members: Iowa: Alton, Denison, Fontanelle, Hartley, Hawarden, Kimballton, Lake Park, Manilla, Orange City, Paullina, Primghar, Remsen, Rock Rapids, Sanborn, Shelby, Sioux Center, Wall Lake, Woodbine
services: wheeling arrangements

North Iowa Municipal Electric Cooperative Association
Highway 169 & Fifth Ave. N., Box 445
Humboldt, Iowa 50548
(515) 332-2981
Richard Johnson, Executive Vice President
members: Alta, Bancroft, Coon Rapids, Graettinger, Grundy Center, Laurens, Milford, New Hampton, Spencer, Sumner, Webster City, West Bend
services: power supply, joint financing, load forecasting, wheeling arrangements, load research, lobbying, demand-side management, engineering, legal assistance, financial studies, computer support, financial guidance, economic development

South Iowa Municipal Electric Cooperative Association
321 N. First St.
Winterset, Iowa 50273
(515) 462-2454
George C. Berry, President
members: Brooklyn, Cascade, Corning, Earlville Light & Water System, Fontanelle, Gowrie, Grand Junction, Greenfield, Independence, Indianola, La Porte City, Lamoni, Lenox, Ogden, Preston, State Center, Stuart, Villisca, Winterset
services: power supply

Western Iowa Municipal Electric Cooperative Association
223 Main St.
Manning, Iowa 51455
(712) 653-3214
Duane Monson, President

Kansas

Kansas Municipal Energy Agency*
6950 Sqibb Road, Suite 414, Box 2179
Mission, Kan. 66201
(913) 677-2885
Gilbert E. Hanson Jr., General Manager
members: Augusta, Baldwin City, Belleville, Burlington, Chanute, Clay Center, Colby, Ellis, Erie, Fredonia, Garnett,Girard, Greensburg, Herington, Hoisington, Iola, Larned, Meade, Mulvane, Neodesha, Norton, Oberlin, Osawatomie, Ottawa, Pratt, St. Francis, Sharon Springs, Sterling, Stockton, Washington, Wellington, Winfield
services: power supply, joint financing, wheeling arrangements, FERC case support

Louisiana

Louisiana Energy and Power Authority*
315 Johnston St.
Lafayette, La. 70501
(318) 269-4046
Sylvan Richard, Manager
members: Abbeville, Alexandria, Erath, Gueydan, Houma, Jonesville, Kaplan, Lafayette, Minden, Morgan City, Natchitoches, New Roads, Plaquemine, Rayne, St. Martinville, Vidalia, Vinton, Welsh, Winnfield
services: power supply, load forecasting, wheeling arrangements, load research, newsletter, lobbying, demand-side management, engineering, legal assistance, public relations, rate design and cost-of-service studies, FERC case support, safety and training, environmental regulation compliance, billing and collections, circuit rider

Massachusetts

Massachusetts Municipal Wholesale Electric Co.*
Stony Brook Energy Center, Box 426
Ludlow, Mass. 01056
(413) 589-0141
David A. Sjosten, General Manager
members: Ashburnham, Belmont, Boylston, Chicopee, Concord, Danvers, Georgetown, Groton, Hingham, Holden, Holyoke, Hull, Ipswich, Littleton, Mansfield, Marblehead, Merrimac, Middleborough, Middleton, North Attleborough, Paxton, Princeton, Reading, Rowley, Shrewsbury, South Hadley, Sterling, Templeton, Wakefield, West Boylston, Westfield
services: power supply, joint financing, load forecasting, wheeling arrangements, load research, newsletter, lobbying, demand-side management, engineering, legal assistance, public relations, rate design and cost-of-service studies, financial studies, management studies, computer support, FERC case support, safety and training, environmental regulations compliance, financial guidance, billing and collections, transmission and distribution assistance, joint equipment purchasing, shared management

Michigan

Michigan Public Power Agency*
2130 Enterprise, S.E.
Kentwood, Mich. 49508
(616) 455-1460
Gary L. Zimmerman, General Manager
members: Bay City, Charlevoix, Chelsea, Croswell, Eaton Rapids, Grand Haven, Harbor Springs, Hart, Holland, Lansing, Lowell, Niles, Paw Paw, Petoskey, Portland, St. Louis, Sebewaing, Traverse City, Zeeland
services: power supply, joint financing, wheeling arrangements, newsletter, lobbying, public relations

Michigan South Central Power Agency*
720 Herring Road., Box 62
Litchfield, Mich. 49252
(517) 542-2346
Jack Bierl, General Manager
members: Clinton, Coldwater, Hillsdale, Marshall, Union City Electric Department.
services: power supply, joint financing, load forecasting, wheeling arrangements, load research, newsletter, lobbying, demand-side management, engineering, legal assistance, public relations, management studies, safety and training, environmental regulations compliance, financial guidance, transmission and distribution assistance, economic development

Minnesota

Arrowhead Municipal Power Agency
c/o City of Proctor, 200 Second St.
Proctor, Minn. 55810
(218) 624-4055
Daniel Hoffman, President
members: Biwabik, Nashwauk, Proctor
services: power supply, wheeling arrangements, legal assistance, financial studies, FERC case support

Northeastern Minnesota Municipal Power Agency
19th St. & Sixth Ave., Box 249
Hibbing, Minn. 55746
(218) 263-7515
David C. Straffacia, President
members: Biwabik, Brainerd, Ely, Gilbert, Mountain Iron, Nashwauk, Virginia; Public Utilities Commissions: Grand Rapids, Hibbing, Keewatin, Proctor

Northern Municipal Power Agency
Box 528
Thief River Falls, Minn. 56701
(218) 681-8002
John T. Anderson, President/General Manager
members: Minnesota: Bagley, Baudette, Fosston, Halstad, Hawley, Roseau, Stephen, Thief River Falls, Warren, Warroad; North Dakota: Grafton, Park River
services: power supply, wheeling arrangements, public relations

Southern Minnesota Municipal Power Agency*
500 S.W. First Ave.
Rochester, Minn. 55902
(507) 285-0478
Pierre J. Heroux, Executive Director & CEO
members: Austin, Blooming Prairie, Fairmont, Grand Marais, Lake City, Litchfield, Mora, New Prague, North Branch, Owatonna, Preston, Princeton, Redwood Falls, Rochester, St. Peter, Spring Valley, Waseca, Wells
services: power supply, joint financing, load management, load forecasting, load research, newsletter, lobbying, demand-side management, engineering, legal assistance, public relations, rate design and cost-of-service studies, computer support, environmental regulations compliance, financial guidance, transmission and distribution assistance, economic development

Western Minnesota Municipal Power Agency
212 Second St. N.W.
Ortonville, Minn. 56278
(612) 839-2549
Dan Holdhusen, General Manager
members: Adrian, Alexandria, Barnesville, Benson, Breckenridge, Detroit Lakes, Elbow Lake, Henning, Jackson, Lake Park, Lakefield, Luverne, Madison, Moorhead, Ortonville, St. James, Sauk Centre, Staples, Wadena, Westbrook, Windom, Worthington.

Mississippi

Municipal Energy Agency of Mississippi*
600 E. Amite St., Suite 101
Jackson, Miss. 39201
(601) 353-4763
C. Neil Davis, General Manager
members: Canton, Clarksdale, Durant, Greenwood, Itta Bena, Kosciusko, Leland, Yazoo City
services: power supply, joint financing, load forecasting, wheeling arrangements, load research, newsletter, demand-side management, public relations, economic development

Missouri

Missouri Joint Municipal Electric Utility Commission*
2407 W. Ash
Columbia, Mo. 65203
(314) 445-3279
B. J. Barnett, General Manager
members: Albany, Bethany, Cabool, Cameron, Campbell, Carthage, Centralia, Chillicothe, Columbia, Farmington, Fayette, Fredericktown, Fulton, Gallatin, Hannibal, Hermann, Higginsville, Independence, Jackson, Kennett, Kirkwood, La Plata, Lamar, Macon, Malden, Marceline, Marshall, Memphis, Milan, Monroe City, New Madrid, Nixa, Odessa, Owensville, Palmyra, Paris, Poplar Bluff, Richland, Rolla, Salisbury, Shelbina, Sikeston, Slater, Springfield, Stanberry, Trenton, Unionville, Vandalia, Waynesville, West Plains.
services: power supply, wheeling arrangements, demand-side management, engineering

Nebraska

Municipal Energy Agency of Nebraska*
521 S. 14th St., Suite 500, Box 95124
Lincoln, Neb. 68509
(402) 474-4759
H. Steve Wacker, Executive Director
members: Colorado: Aspen, Fleming, Fort Morgan, Frederick, Haxtun, Lyons, Oak Creek, Yuma; Kansas: Belleville, Beloit, Goodland; Nebraska: Alliance, Ansley, Arnold, Auburn, Bayard, Beaver City, Benkelman, Blue Hill, Bridgeport, Broken Bow, Burwell, Callaway, Cambridge, Chappell, Crete, Curtis, Fairbury, Fairmont, Falls City, Franklin, Gering, Grand Island, Grant, Hastings, Hubbell, Imperial PPD, Indianola, Kimball, Lodgepole, Lyman, Mitchell, Morrill, Mullen, Nebraska City, Oxford, Pender, Red Cloud, Sargent, Shickley, Sidney, Spencer, Stuart, Wahoo, West Point, Wood River
services: power supply, joint financing, load forecasting, wheeling arrangements, load research,

newsletter, demand-side management, public relations, economic development

Nebraska Municipal Power Pool*
Box 95124
Lincoln, Neb. 68509
(402) 474-4759
H. Stephen Wacker, General Manager
members: Colorado: Aspen, Burlington, Fleming, Frederick, Fort Morgan, Haxtun, Holyoke, Julesburg, Lyons, Oak Creek, Wray, Yuma; Iowa: Harlan; Kansas: Belleville, Beloit, Goodland, Holyrood; Nebraska: Alliance, Alma, Ansley, Arapahoe, Arnold, Auburn, Arurora, Battle Creek, Bayard, Beatrice, Beaver City, Benkelman, Blue Hill, Bradshaw, Bridgeport, Broken Bow, Burwell, Callaway, Central City, Chappell, Clarkson, Crete, Curtis, Dakota City, David City, Fairbury, Fairmont, Falls City, Franklin, Friend, Gering, Grand Island, Grant, Greenwood, Hastings, Hemingford, Hickman, Holdrege, Hubbell, Imperial PPD, Indianola, Kimball, Laurel, Leigh, Lexington, Lincoln, Lodgepole, Lyman, Lyons, Mitchell, Morrill, Mullen, Nebraska City, Neligh, North Central PPD, Northeast Nebraska RPPD, North Platte, Norton-Decatur Cooperative Electric Co. Inc., Oxford, Pender, Pierce, Plainview, Red Cloud, Sargent, Scribner, Seward, Shickley, Sidney, Snyder, South Central PPD, South Sioux City, Spalding, Spencer, St. Paul, Stanton County PPD, Stromsburg, Stuart, Superior, Sutton, Southwest PPD, Syracuse, Tecumseh, Twin Valleys PPD, Valentine, Wahoo, Wakefield, Walthill, Wauneta, West Point, Wilber, Wilcox, Wisner, Wood River; South Carolina: Coastal Electric Cooperative, Inc.; Wyoming: Torrington
services: newsletter, lobbying, demand-side management, public relations, management studies, computer support, FERC case support, safety and training, transmission and distribution assistance, circuit rider, gas

North Carolina

North Carolina Eastern Municipal Power Agency*
1427 Meadowwood Blvd., Box 29513
Raleigh, N.C. 27626-0513
(919) 832-9924
James T. Bobo, General Manager
members: Apex, Ayden, Belhaven, Benson, Clayton, Edenton, Elizabeth City, Farmville, Fremont, Greenville, Hamilton, Hertford, Hobgood, Hookerton, Kinston, LaGrange, Laurinburg, Louisburg, Lumberton, New Bern, Pikeville, Red Springs, Robersonville, Rocky Mount, Scotland Neck, Selma, Smithfield, Southport, Tarboro, Wake Forest, Washington, Wilson
services: power supply, joint financing, load forecasting, wheeling arrangements, load research, newsletter, lobbying, legal assistance, public relations, rate design and cost-of-service studies, financial studies, computer support, FERC case support

North Carolina Municipal Power Agency No. 1*
1427 Meadowwood Blvd., Box 29513
Raleigh, N.C. 27626-0513
(919) 832-9924
James T. Bobo, General Manager
members: Albemarle, Bostic, Cherryville, Cornelius, Drexel, Gastonia, Granite Falls, High Point, Huntersville, Landis, Lexington, Lincolnton, Maiden, Monroe, Morganton, Newton, Pineville, Shelby, Statesville
services: power supply, joint financing, load forecasting, wheeling arrangements, load research, newsletter, lobbying, legal assistance, public relations, rate design and cost-of-service studies, financial studies, computer support, FERC case support

North Dakota

North Dakota Municipal Power Agency*
2105 Catherine Drive
Bismarck, N.D. 58501
(701) 255-6832
Robert H. Griffin, Secretary-Treasurer
members: Cavalier, Hillsboro, Hope, Lakota, Northwood, Valley City.
services: Agency is inactive.

Ohio

American Municipal Power-Ohio*
601 Dempsey Road, Box 549
Westerville, Ohio 43081
(614) 890-2805
Kenneth L. Hegemann, President
members: Amherst, Arcadia, Arcanum, Beach City, Bloomdale, Bowling Green, Bradner, Brewster, Bryan, Carey, Celina, Cleveland, Clyde, Columbiana, Columbus, Custar, Cuyahoga Falls, Cygnet, Deshler, Dover, Edgerton, Eldorado, Elmore, Galion, Genoa, Glouster, Grafton, Greenwich, Hamilton, Haskins, Hubbard, Hudson, Jackson, Jackson Center, Lakeview, Lebanon, Lodi, Lucas, Mendon, Milan, Minster, Monroeville, Montpelier, Napoleon, New Bremen, New Knoxville, Newton Falls, Niles, Oak Harbor, Oberlin, Ohio City, Orrville, Painesville, Pemberville, Pioneer, Piqua, Prospect, Republic, St. Clairsville, St. Marys, Seville, Shelby, South Vienna, Sycamore, Tipp City, Versailles, Wadsworth, Wapakoneta, Waynesfield, Wellington, Westerville, Wharton, Woodsfield, Woodville, Yellow Springs
services: power supply, load forecasting, wheeling arrangements, publications, engineering, legal assistance, public relations, safety and training, transmission and distribution assistance, economic development, circuit rider, FERC case support, mutual aid
established 1971

Oklahoma

Oklahoma Municipal Power Authority*
2300 E. 2nd St., Box 1960
Edmond, Okla. 73083-1960
(405) 340-5047
Harry Dawson, General Manager
members: Altus, Blackwell, Comanche, Copan, Duncan, Edmond, Eldorado, Fairview, Frederick, Goltry, Granite, Hominy, Kingfisher, Laverne, Lexington, Mangum, Marlow, Newkirk, Okeene, Olustee, Pawhuska, Ponca City, Pond Creek, Prague, Ryan, Spiro, Tecumseh, Tonkawa, Walters, Waynoka, Wetumka, Wynnewood, Yale
services: power supply, load forecasting, load research, newsletter, engineering, public relations, financial studies, transmission and distribution assistance, marketing, rate studies

South Carolina

Piedmont Municipal Power Agency*
121 Village Drive
Greer, S.C. 29651
(803) 877-9632
James A. Bauer, General Manager
members: Abbeville, Clinton, Easley, Gaffney, Greer, Laurens, Newberry, Rock Hill, Union, Westminster
services: power supply and related services

South Dakota

Heartland Consumers Power District+*
Box 248
Madison, S.D. 57042
(605) 256-6536
David C. Westbrock, General Manager
members: Iowa: Akron; Minnesota: Marshall, Tyler; South Dakota: Arlington, Aurora, Colman, Estelline, Groton, Hecla, Howard, McLaughlin, Madison, Parker, Plankinton, Tyndall, Volga, Wessington Springs, White; Cooperatives: Northern Electric Power Cooperative, Inc., Aberdeen, S.D.; State Institutions: University of South Dakota, Vermillion, South Dakota State University, Brookings, State Training School, Plankinton
services: power supply, load forecasting, wheeling arrangements, load research, lobbying, computer support, economic development

Missouri Basin Municipal Power Agency+*
Box 84610
Sioux Falls, S.D. 57118-4610
(605) 338-4042
Dan Holdhusen, General Manager
members: Iowa: Alton, Denison, Fontanelle, Hartley, Hawarden, Kimballton, Lake Park, Manilla, Orange City, Paullina, Primghar, Remsen, Rock Rapids, Sanborn, Shelby, Sioux Center, Wall Lake, Woodbine; Minnesota: Adrian, Alexandria, Barnesville, Benson, Blue Earth, Breckenridge, Detroit Lakes, Elbow Lake, Granite Falls, Henning, Jackson, Lakefield, Lake Park, Luverne, Madison, Moorhead, Ortonville, St. James, Sauk Center, Staples, Wadena, Westbrook, Worthington; North Dakota: Cavalier, Hillsboro, Lakota, Northwood, Valley City; South Dakota: Beresford, Big Stone City, Brookings, Burke, Faith, Flandreau, Fort Pierre, Pickstown, Pierre, Vermillion, Watertown, Winner
services: power supply, load forecasting, wheeling arrangements, load research, newsletter, demand-side management, workshops and seminars, public relations, second opinion/review of rate design and cost-of-service studies, computer support, environmental regulations compliance, financial guidance, transmission and distribution assistance, joint equipment purchasing, economic development. Affiliate organizations are: Western Minnesota Municipal Power Agency, Missouri Basin Muncipal Electric Cooperative Association, South Dakota Municipal Power Agency, and North Dakota Municipal Power Agency.

South Dakota Municipal Power Agency
Box 84610
Sioux Falls, S.D. 57118
(605) 224-7341
Dave Pagett, President
members: Beresford, Big Stone, Brookings, Burke, Faith, Flandreau, Fort Pierre, Pierre, Vermillion, Watertown, Winner
services: power supply, load forecasting, wheeling arrangements, load research, newsletter, demand-side management, public relations, rate design and cost-of-service studies, computer support, environmental regulations compliance, financial guidance, transmission and distribution assistance, joint equipment purchasing, economic development

Texas

Lone Star Municipal Power Agency*
107 South Hill
Caldwell, Texas 77836
(409) 567-3271
members: Caldwell, Kirbyville, Newton
services: power supply, joint financing, wheeling arrangements, newsletter, lobbying, safety and training, transmission and distribution assistance

Sam Rayburn Municipal Power Agency*
1412 S. Houston, Box 1700
Livingston, Texas 77351
(409) 327-5303
North Bardell, Executive Director
members: Louisiana: Vinton; Texas: Jasper, Liberty, Livingston
services: power supply, joint financing, load forecasting, wheeling arrangements, load research, lobbying, engineering, legal assistance, public relations, FERC case support, environmental regulations compliance, transmission and distribution assistance, joint equipment purchasing, economic development, shared management

Texas Municipal Power Agency*
Box 7000
Bryan, Texas 77805
(409) 873-2013
Ed Wagoner, Executive Director & General Manager
members: Bryan, Denton, Garland, Greenville
services: power supply

West Texas Municipal Power Agency
Box 2000
Lubbock, Texas 79457
(806) 767-2010
Joan Baker, President
members: Brownsville, Floydada, Lubbock, Tulia
services: power supply

Utah

Intermountain Power Agency*
480 E. 6400 S., Suite 200
Murray, Utah 84107
(801) 262-8807
Reed T. Searle, General Manager
members: Beaver, Bountiful, Enterprise, Ephraim, Fairview, Fillmore City, Heber Light & Power Company, Holden, Hurricane, Hyrum City, Kanosh, Kaysville City, Lehi City, Logan City, Meadow, Monroe City, Morgan City, Mount Pleasant, Murray City, Oak City, Parowan City, Price, Spring City. Thirteen other utilities also purchase power from the Intermountain Power Project. These include six municipal utilities in California, and six rural electric cooperatives and one private power company in Utah.
services: power supply, joint financing, wheeling arrangements, newsletter, lobbying, financial studies

Utah Associated Municipal Power Systems*
8722 S. 300 West
Sandy, Utah 84070
(801) 566-3938
Carolyn S. McNeil, General Manager
members: Arizona: Page; Utah: Beaver, Blanding, Bountiful, Brigham City, Enterprise, Ephraim, Fairview, Fillmore, Heber, Holden, Hurricane, Hyrum, Kanosh, Kaysville, Lehi, Logan, Meadow, Monroe, Morgan, Mount Pleasant, Murray, Oak City, Paragonah, Payson, St. George, Santa Clara, Spring City, Springville, Strawberry Electric Service District, Washington, Weber Basin Water Conservancy District
services: power supply, joint financing, load forecasting, wheeling arrangements, lobbying, legal assistance, public relations, rate design and cost-of-service studies

Utah Municipal Power Agency*
40 S. Main, Box 818
Spanish Fork, Utah 84660
(801) 798-7489
G. Richard Judd, General Manager
members: Levan, Manti, Nephi, Provo, Salem, Spanish Fork
services: power supply, joint financing, load forecasting, wheeling arrangements, load research, lobbying, demand-side management, engineering, legal assistance, FERC case support

Vermont

Vermont Public Power Supply Authority*
512 St. George Road, Box 425
Williston, Vt. 05495
(802) 878-5274
William J. Gallagher, General Manager
members: Enosburg Falls, Jacksonville, Ludlow, Lyndonville, Morrisville, Northfield, Readsboro, Stowe, Swanton, Washington Electric Cooperative, Inc.
services: power supply, joint financing, load forecasting, wheeling arrangements, load research, lobbying, demand-side management, engineering, legal assistance, public relations, rate design and cost-of-service studies, computer support, FERC case support, transmission and distribution assistance

Virginia

Blue Ridge Power Agency
c/o Danville Electric Division, Drawer 3300
Danville, Va. 24543
(804) 799-5270
Duane Dahlquist, President
members: Bedford, Bristol, Danville, Martinsville, Radford, Richlands, Salem, Virginia Polytechnic Institute
services: power supply, load forecasting, wheeling arrangements, load research, lobbying, FERC case support, safety and training

Virginia Municipal Electric Association No. 1
207 W. Second St.
Franklin, Va. 23851
(804) 562-8504
Molly Bass, President
members: Blackstone, Culpeper, Elkton, Franklin, Harrisonburg, Manassas, Wakefield
services: power supply, load forecasting

Washington

Central Washington Power Agency
1400 E. Vantage Hwy.
Ellensburg, Wash. 98926
(509) 925-3164
Harold W. Jenkins, Director
members: Grant County Public Utility District, Kittitas County Public Utility District.
services: Agency currently is inactive, but exploring development of hydroelectric projects.

Grand Coulee Project Hydroelectric Authority
Box 219
Ephrata, Wash. 98823-0219
(509) 754-2227
Merle R. Gibbens, Secretary/Manager
members: South Columbia Basin Irrigation District, Quincy Columbia Basin Irrigation District, East Columbia Basin Irrigation District
services: power supply, public relations, FERC case support, billing and collections

Washington Public Power Supply System*
Box 968
Richland, Wash. 99352
(509) 372-5000
Donald Mazur, Managing Director
members: Public Utility Districts: Benton, Chelan, Ferry, Franklin, Grant, Kittitas, Klickitat, Okanogan, Skamania, Wahkiakum; Cities: Richland, Seattle, Tacoma
services: power supply and technical support

West Virginia

Hinton-White Sulphur Springs Philippi Power Authority
232 Capitol St.
Chareston, W.Va. 25301
(304) 342-3900
Dennis R. Vaughan Jr., General Counsel
established 1991

Wisconsin

Badger Power Marketing Authority
122 N. Sawyer St.
Shawano, Wis. 54166
(715) 526-2920
Nils Holmgren, General Manager
members: Shawano, Clintonville
services: power supply, joint financing, load forecasting, wheeling arrangements, load research, lobbying, demand-side management, engineering, legal assistance, public relations, rate design and cost-of-service studies, financial studies, management studies, FERC case support, transmission and distribution assistance

Western Wisconsin Municipal Power Group
800 Lincoln Ave.
Fennimore, Wis. 53809
(608) 822-6501
Charles J. Leuck, President
members: Iowa: Forest City, Lake Mills, Osage; Wisconsin: Arcadia, Argyle, Cashton, Cumberland, Elroy, Fennimore, La Farge, Merrilan, New Lisbon, Viola
services: joint financing, load forecasting, wheeling arrangements, public relations, transmission and distribution assistance

Wisconsin Public Power, Inc. SYSTEM+*
1425 Corporate Center Drive
Sun Prairie, Wis. 53590
(608) 837-2653
Roy Thilly, General Manager
members: Algoma, Black River Falls, Boscobel, Cedarburg, Columbus, Cuba City, Eagle River, Florence, Hartford, Hustisford, Jefferson, Kaukauna, Lake Mills, Lodi, Menasha, Muscoda, New Holstein, New London, New Richmond, Oconomowoc, River Falls, Slinger, Sturgeon Bay, Sun Prairie, Two Rivers, Waterloo, Waunakee, Waupun, Westby, Whitehall
services: power supply, joint financing, load forecasting, wheeling arrangements, load research, newsletter, lobbying, demand-side management, engineering, rate design and cost-of-service studies, computer support, FERC case support, environmental regulations compliance, transmission and distribution assistance, joint equipment purchasing

Wyoming

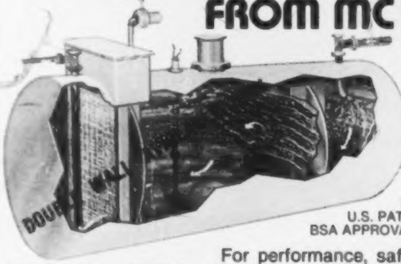
Wyoming Municipal Power Agency+*
Box 900
Lusk, Wyo. 82225
(307) 334-2170
Larry LaMaack, Executive Director
members: Cody, Fort Laramie, Guernsey, Lingle, Lusk, Pine Bluffs, Powell, Wheatland
services: power supply, joint financing, load forecasting, wheeling arrangements, load research, newsletter, lobbying, demand-side management, engineering, public relations, rate design and cost-of-service studies, safety and training, transmission and distribution assistance

OUR BUSINESS IS SEPARATION

SALES & DISTRIBUTION NATIONWIDE

Oil Water Separators

FROM MC TIGHE



WITH STRATEGICALLY LOCATED PRODUCTION FACILITIES

PRE ENGINEERED sti-P3 PROVEN PROTECTION

BUILT TO UL-58 SPECIFICATIONS
U.S. PATENT NO. 4042512
BSA APPROVAL NO. 978-77-SM

For performance, safety, and cost effectiveness, McTighe Oil Water Separators are your best choice with models available from...**20 to 4500 GPM**.
☐Completely separates free oil & grease from discharge water ☐20 GPM to 4500 GPM flow through with larger systems available ☐High grade coated steel construction ☐Reduces effluent to below 10 PPM free oils ☐Guaranteed corrosion protection ☐Various equipment options available ☐Easy to install ☐Fully automatic

HIGH-FLOW OR LOW-FLOW SEPARATORS • PRODUCT SAVERS

Write or call for detailed information on a system that is designed and built to your specific application.

McTighe Industries Inc.
P.O. Box 928 • Mitchell, SD 57301
Phone: (605) 996-1162
FAX No. 605-996-1908

Federal Power Systems

Alaska Power Administration*
2770 Sherwood Lane, Suite 2B
Juneau, Alaska 99801-8545
(907) 586-7405
Roben J. Cross, Administrator
customers: 3
nameplate capacity (kW): hydro: 108,160
1990 MWh generated: 441,145
1990 MWh purchased: 0
1990 MWh sold: retail: 3,816
wholesale: 432,131
1990 revenues: retail: $61,000
wholesale: $9,541,000

Bonneville Power Administration*
Box 3621
Portland, Ore. 97208
(503) 230-3000
Randall W. Hardy, Administrator
customers: 10
nameplate capacity (kW): unavailable
1990 MWh generated: 95,373,492
1990 MWh purchased: 513,526
1990 MWh sold: retail: 28,299,596
wholesale: 56,371,833
1990 revenues: retail: $640,774,000
wholesale: $1,278,251,000

International Boundary and Water Commission, U.S. and Mexico
U.S. Section
The Commons, Building C,
Suite 310
4171 N. Mesa
El Paso, Texas 79902

Note: Data is shown for those federal utilities which file form EIA-861.

Mission Valley Power
U.S. Bureau of Indian Affairs,
Department of the Interior
Box 890
Polson, Mont. 59860
(406) 883-5361
Dirk Borges, General Manager
customers: 13,140
nameplate capacity (kW): water: 360
1990 MWh generated: 2,194
1990 MWh purchased:
from utilities: 260,133
from nonutilities: 1,381
1990 MWh sold: 236,059
1990 revenues: $9,628,000
established 1988

San Carlos Irrigation Project, U.S. Bureau of Indian Affairs
255 W. Roosevelt Ave., Box 250
Coolidge, Ariz. 85228
(602) 723-5439
Vernon W. Strickland, Power Manager
customers: 11,443
nameplate capacity (kW): water: 10,000
1990 MWh generated: 0
1990 MWh purchased: 307,063
1990 MWh sold: 252,796
1990 revenues: $17,279,000
established 1929

Southeastern Power Administration*
Samuel Elbert Building
Elberton, Ga. 30635
(404) 283-9911
John McAllister Jr., Administrator
customers: unavailable
nameplate capacity (kW): unavailable
1990 MWh generated: 9,157,649
1990 MWh purchased: 25,076
1990 MWh sold: wholesale: 8,636,769
1990 revenues: wholesale: $136,569,000

Southwestern Power Administration*
Box 1619
Tulsa, Okla. 74101
(918) 581-7474
J. M. Shafer, Administrator
customers: unavailable
nameplate capacity (kW): unavailable
1990 MWh generated: 7,370,213
1990 MWh purchased: 49,690
1990 MWh sold: wholesale: 6,676,533
1990 revenues: wholesale: $85,911,000

Tennessee Valley Authority*
400 W. Summit Hill Drive
Knoxville, Tenn. 37902
(615) 632-2101
Marvin Runyon, Chairman
customers: 34
nameplate capacity (kW): coal: 17,647,360; gas: 1,096,800; nuclear: 5,897,160; water: 4,876,410
1990 MWh generated: 113,080,478
1990 MWh purchased:
from utilities: 11,250
from nonutilities: 982,579
1990 MWh sold: retail: 19,479,719
wholesale: 95,372,691
1990 revenues: retail: $917,722,000
wholesale: $4,215,993,000

U.S. Army Corps of Engineers
20 Massachusetts Ave. N.W.
Washington, D.C. 20314
(202) 272-0001
Gen. Henry J. Hatch, Chief of Engineers
(data is for North Central Division only)
customers: unavailable
nameplate capacity (kW): unavailable
1990 MWh generated: 143,386
1990 MWh purchased: 0
1990 MWh sold: wholesale: 137,879
1990 revenues: wholesale: $996,000

U.S. Bureau of Reclamation Department of the Interior*
18th & C Sts. N.W.
Washington, D.C. 20240
(202) 208-4662
Dennis Underwood, Commissioner
customers: unavailable
1990 MWh generated: unavailable
1990 MWh purchased: unavailable
1990 MWh sold: unavailable
1990 revenues: unavailable

Western Area Power Administration*
Box 3402
Golden, Colo. 80401
(303) 231-1513
William Clagett, Administrator
customers: 118
nameplate capacity (kW): unavailable
1990 MWh generated: 27,861,101
1990 MWh purchased: 9,101,844
1990 MWh sold: retail: 6,414,975
wholesale: 28,045,746
1990 revenues: retail: $92,797,000
wholesale: $424,471,000

Regional Associations

Central Service Association (Tennessee Valley)*
Box 348
Tupelo, Miss. 38802-0348
(601) 842-5962
Ronnie H. Hickman,
General Manager

Colorado River Energy Distributors Association*
One Utah Center, 201 S. Main,
Suite 900
Salt Lake City, Utah 84111-2215
(801) 350-9090
Clifford Barrett,
Executive Director

Great Lakes Electric Consumers Association*
Box 2696
Gaithersburg, Md. 20886
(301) 963-5533
Joe Dudick, Executive Director

Intermountain Consumer Power Association*
8722 S. 300 W.
Sandy, Utah 84070
(801) 566-3933
Carolyn S. McNeil,
General Manager

Mid-West Electric Consumers Association*
999 18th St., Suite 1635
Denver, Colo. 80202
(303) 296-2158
Tom Graves, Executive Director

Missouri Basin Systems Group*
Suite 102B,
201 N. Minnesota Ave.
Sioux Falls, S.D. 57102-0312
(605) 332-3536
Henry Knapp, Executive Director

Northeast Public Power Association*
1700 West Park Drive
Westborough, Mass. 01581-3907
(508) 898-3554
Patrick J. Hyland,
Executive Director

Northwest Public Power Association*
9817 N.E. 54th St., Box 4576
Vancouver, Wash. 98662-0576
(206) 254-0109
Norman C. Jacox,
General Manager

Public Power Council*
500 N.E. Multnomah, Suite 729
Portland, Ore. 97232
(503) 232-2427
William K. Drummond, Manager

SEMO-NEARK Municipal Utilities Association
400 E. Monroe
Jonesboro, Ark. 72401
(501) 935-5581
James A. Reed, President

---

* Member, American Public Power Association
† Member, Demonstration of Energy-Efficient Developments Program

Regional Associations (continued)

Southeastern Power Resources Committee, Inc.*
2100 East Exchange Place,
Box 1349
Tucker, Ga. 30085-1349
(404) 270-7900
F. F. Stacy, President

Southwestern Power Resources Association*
Box 1360
Edmond, Okla. 73083
(405) 340-1900
Mike McDowell,
Executive Director

Tennessee Valley Public Power Association*
1201 Chestnut St.
Chattanooga, Tenn. 37402
(615) 756-6511
Jerry L. Campbell,
Executive Director

Western Fuels Association, Inc.*
1625 M St. N.W.
Washington, D.C. 20036-3264
(202) 463-6580
Fredrick D. Palmer,
General Manager

State Associations

Alabama

Alabama Rural Electric Association*
Box 244014
Montgomery, Ala. 36124-4014
(205) 270-1454
Dail Gibbs, Executive Vice
President

Electric Cities of Alabama
Drawer 927
Cullman, Ala. 35056
(205) 734-2343
Chairman

Municipal Electric Utility Association of Alabama
Box 207
Sylacauga, Ala. 35130
(205) 249-0372
Edward Yeargan, Chairman

Arizona

Arizona Municipal Power Users' Association*
2712 N. 7th St.
Phoenix, Ariz. 85006
(602) 248-0372
Michael A. Curtis,
Executive Secretary

Irrigation & Electrical Districts Association of Arizona*
2001 N. Third St., Suite 204
Phoenix, Ariz. 85004-1472
(602) 254-5908
Robert S. Lynch, Assistant
Secretary/Treasurer

Arkansas

Arkansas Municipal Power Association
Box 99
Conway, Ark. 72032
(501) 329-6000
Zachary D. Wilson, Legal Counsel

California

California Municipal Utilities Association*
1225 Eighth St., Suite 440
Sacramento, Calif. 95814
(916) 441-1733
Gerald L. Jordan,
Executive Director

Northern California Municipal Electric Association
c/o City of Redding,
760 Parkview Ave.
Redding, Calif. 96001
(916) 225-4300
Sam Lindley, President

Colorado

Colorado Association of Municipal Utilities*
c/o Longmont Electric Dept., 1100
S. Sherman St.
Longmont, Colo. 80501
(303) 651-8386
Jeffrey A. Gould, President

Colorado Rural Electric Association*
3333 Quebec St., Suite 8100
Denver, Colo. 80207
(303) 455-2700
Ray Clifton, Executive Director

Connecticut

Connecticut Municipal Electric & Gas Association
c/o 100 John St., Box 190
Wallingford, Conn. 06492
(203) 265-1593
Raymond F. Smith, President

Florida

Florida Electric Cooperatives Association*
Box 590
Tallahassee, Fla. 32302
(904) 877-6166
John E. Horne, General Manager

Florida Municipal Electric Association, Inc.+*
Box 10114
Tallahassee, Fla. 32302-2114
(904) 224-3314
Edwin C. Shreve Jr., Executive
Vice President

Georgia

Electric Cities of Georgia
201 Pryor St. S.W.
Atlanta, Ga. 30303
(404) 688-0472
Keith Bass, Chairman

Georgia Electric Membership Corp.*
151 Ellis St., Suite 422
Atlanta, Ga. 30303
(404) 659-3430
Derl Hinson, Executive Vice
President

Illinois

Illinois Municipal Utilities Association*
919 S. Spring St.
Springfield, Ill. 62704
(217) 522-3518
Richard Carter, Executive Director

Indiana

Indiana Municipal Electric Association*
751 Hawthorne Drive, Box 1416
Carmel, Ind. 46032
(317) 844-3696
Paul Osler, Executive Director

Indiana Statewide Association of RECs*
Box 24517
Indianapolis, Ind. 46224
(317) 248-9453
John Ferguson, General Manager

Iowa

Iowa Association of Electric Cooperatives*
8525 Douglas Ave., Suite 48
Des Moines, Iowa 50322
(515) 276-5350
Glenn O. Lovig, Executive Vice
President

Iowa Association of Municipal Utilities+*
325 Insurance Exchange Bldg.,
5th & Grand Ave.
Des Moines, Iowa 50309
(515) 282-0904
Bob Haug, Executive Director

Kansas

Kansas Electric Cooperatives Inc.*
Box 4267
Topeka, Kan. 66604
(913) 272-8740
Lester L. Murphy Jr., Executive
Vice President

Kansas Municipal Utilities Inc.*
Box 1225
McPherson, Kan. 67460
(316) 241-1423
Louis Stroup Jr.,
Executive Director

Kentucky

Municipal Electric Power Association of Kentucky*
400 King's Daughter Drive
Frankfort, Ky. 40601
(502) 223-2063
Lyle D. Cobb, Executive Director

Massachusetts

Municipal Electric Association of Massachusetts*
c/o Holden Light Department, 94
Reservoir St.
Holden, Mass. 01520
(508) 829-4316
Neil E. Murray, President

Michigan

Michigan Municipal Electric Association*
2130 Enterprise, S.E.
Kentwood, Mich. 49508
(616) 455-1460
Gary Zimmerman, Executive Vice
President

Minnesota

Minnesota Municipal Utilities Association+*
Prestige Square, 1200 Highway
25 N., Box 459
Buffalo, Minn. 55313
(612) 682-4104
R. G. Kirkham, Executive Director

Minnesota Rural Electric Association*
11640 73rd Ave. N.
Maple Grove, Minn. 55369
(612) 835-2614
Mark Glaess, General Manager

Missouri

Missouri Association of Municipal Utilities+*
2409 W. Ash
Columbia, Mo. 65203
(314) 445-9177
Gerald Feller, Executive Director

State Associations (continued)

Montana

Montana Electric Cooperatives Association*
Box 1306
Great Falls, Mont. 59403
(406) 761-8333
Jay T. Downen, Executive Vice President & General Manager

Nebraska

Nebraska Power Association
Box 80869
Lincoln, Neb. 68501
(402) 473-3204
Shelley Sahling, Administrative Coordinator

Nebraska Rural Electric Association†*
Box 82048
Lincoln, Neb. 68501
(402) 475-4988
Rex Carpenter, General Manager

Utilities Section, Nebraska League of Municipalities*
1335 L St.
Lincoln, Neb. 68508
(402) 476-2829
David L. Chambers, Director

New Jersey

Public Power Association of New Jersey*
c/o Sussex Rural Electric Cooperative, Box 346
Sussex, N.J. 07461
(201) 875-5101
James A. Jablonski, President

New Mexico

Municipal Electric Generation Association
c/o City of Farmington
800 Municipal Drive
Farmington, N.M. 87401
(505) 327-7701
Dwight D. Arthur, Secretary

New Mexico Rural Electric Cooperative Association*
614 Don Gaspar
Santa Fe, N.M. 87501
(505) 982-4671
Rodger Beimer,
Executive Manager

New York

Municipal Electric Utilities Association of New York†*
445 Electronics Parkway
Liverpool, N.Y. 13088
(315) 453-7851
Robert A. Mullane,
Executive Director

North Carolina

ElectriCities of North Carolina*
1427 Meadowwood Blvd.,
Box 29513
Raleigh, N.C. 27626-0513
(919) 832-9924
James T. Bobo, General Manager

North Carolina Association of Electric Cooperatives*
Box 27306
Raleigh, N.C. 27611
(919) 872-0800
Wayne Keller,
Executive Vice President

North Carolina Association of Municipal Electric Systems
Drawer 10
Granite Falls, N.C. 28630
(704) 396-3131
Linda K. Story,
Secretary-Treasurer

North Dakota

North Dakota Association of Municipal Power Systems
103 Washington
Northwood, N.D. 58267
(701) 396-3131
Truman C. Wold, President

North Dakota Association of RECs*
Box 727
Mandan, N.D. 58554
(701) 663-6501
Dennis Hill,
Executive Vice President

Ohio

Ohio Municipal Electric Association*
601 Dempsey Road, Box 549
Westerville, Ohio 43081
(614) 890-2805
Kenneth L. Hegemann,
Executive Secretary

Oklahoma

Municipal Electric Systems of Oklahoma*
201 N.E. 23rd St.
Oklahoma City, Okla. 73105
(405) 528-7564
Shane Woolbright,
Executive Director

Oklahoma Association of Electric Cooperatives*
Box 11047
Oklahoma City, Okla. 73111
(405) 478-1455
Larry Watkins, General Manager

Oregon

Oregon Municipal Electric Utilities*
1201 Court St., N.E. (97301),
Box 928
Salem, Ore. 97308
(503) 588-6550
Tom O'Connor,
Executive Director

Oregon PUD Association*
3000 Market St. Plaza, N.E.,
Suite 218
Salem, Ore. 97301
(503) 370-4413
Diane White, Executive Director

Oregon Rural Electric Cooperative Association*
575 Union St. N.E.
Salem, Ore. 97301
(503) 585-9988
Saralynn Baker-Sifford,
General Manager

Ruralite Service*
Box 558
Forest Grove, Ore. 97116
(503) 357-2105
Charles K. Fleming, President

Pennsylvania

Pennsylvania Municipal Electric Association*
212 Locust St., Box 1266
Harrisburg, Pa. 17108
(717) 233-5704
Jesse C. Tilton III,
Executive Secretary

Pennsylvania Rural Electric Association*
212 Locust St., Box 1266
Harrisburg, Pa. 17108
(717) 233-5704
Jesse C. Tilton III, President

South Carolina

South Carolina Association of Municipal Power Systems*
Box 12109
Columbia, S.C. 29211
(803) 799-9574
Miriam Hair, Executive Director

South Dakota

South Dakota Municipal Electric Association
214 E. Capitol
Pierre, S.D. 57501
(605) 224-8654
Robert H. Miller,
Executive Director

South Dakota Rural Electric Association Inc.*
Box 1138
Pierre, S.D. 57501
(605) 224-8823
Ron Holsteen, Executive Manager

Tennessee

Tennessee Municipal Electric Power Association*
Box 1311
Brentwood, Tenn. 37024-1311
(615) 373-5738
William C. Moss,
Executive Director

Texas

Texas Electric Cooperatives Inc.*
Box 9589
Austin, Texas 78766
(512) 454-0311
Jim Morriss,
Executive Vice President

Texas Public Power Association†*
810 Norwood Tower,
114 W. 7th St.
Austin, Texas 78701
(512) 472-5965
Michael H. Williams,
Executive Director

Vermont

Municipal Electric Association of Vermont
Box 516
Hardwick, Vt. 05843
(802) 868-3397
William D. Fee, President

Virginia

Municipal Electric Power Association of Virginia*
Box 12203
Richmond, Va. 23241
(804) 649-8471
Christy A. Everson,
Executive Secretary

Washington

Washington Public Utility Districts Association*
1111 3rd Ave., Suite 1870
Seattle, Wash. 98101-3295
(206) 682-3110
Stephen F. Johnson,
Executive Director

Wisconsin

Municipal Electric Utilities of Wisconsin*
1150 W. Main St.
Sun Prairie, Wis. 53590
(608) 837-2263
Earl Wiehl, Executive Director

---

* Member, American Public Power Association
† Member, Demonstration of Energy-Efficient Developments Program

APPA Electric Cooperative Members

Colorado

Tri-State Generation & Transmission Association
12076 Grant St., Box 33695
Denver, Colo. 80233
(303) 452-6111
Frank R. Knutson,
General Manager

Florida

Lee County Electric Cooperative+
Box 3455
North Fort Myers, Fla. 33918-3455
(813) 656-2300
James D. Sherfey,
General Manager

Seminole Electric Cooperative
Box 272000
Tampa, Fla. 33688
(813) 963-0994
William C. Walbridge, Executive Vice President & General Manager

Iowa

L&O Power Cooperative
315 First Ave.
Rock Rapids, Iowa 51246
(712) 472-2556
W. L. Jongerius, Manager

North Dakota

Basin Electric Power Cooperative
1717 E. Interstate Ave.
Bismarck, N.D. 58501
(701) 223-0441
Robert McPhail,
General Manager

Central Power Electric Cooperative
Box 1576
Minot, N.D. 58701
(701) 852-4407
Gary Williamson,
General Manager

KEM Electric Cooperative, Inc.
Box 904
Linton, N.D. 58552
(701) 254-4666
Terry M. Jech, General Manager

Oregon

Salem Electric Cooperative+
633 Seventh St., N.W.,
Box 5588
Salem, Ore. 97304
(503) 362-3601
Jere Overs, General Manager

Pennsylvania

Allegheny Electric Cooperative Inc.
212 Locust St., Box 1266
Harrisburg, Pa. 17108
(717) 233-5704
Jesse C. Tilton III, President

South Dakota

East River Electric Power Cooperative
Lock Drawer E
Madison, S.D. 57042
(605) 256-4536
Jeffrey L. Nelson,
General Manager

Texas

Pedernales Electric Cooperative Inc.
Box 467
Johnson City, Texas 78636
(512) 868-7155
Bennie R. Fuelberg,
General Manager

Utah

Garkane Power Association
Box 790
Richfield, Utah 84701
(801) 896-5403
Glen P. Willardson,
General Manager

Vermont

Vermont Electric Cooperative Inc.
School St.
Johnson, Vt. 05656
(802) 635-2331
Charles A. Farrington,
Executive Manager

Washington Electric Cooperative Inc.
Box 8
East Montpelier, Vt. 05651
(802) 223-5245
Joseph Bongiovanni,
General Manager

Other APPA Member Systems

United States

Berea College Electric Utility
CPO 2337
Berea, Ky. 40404
(606) 986-4611
Mike Bethurem,
Utilities Administrator

Calaveras County Water District
Box 846
San Andreas, Calif. 95249
(209) 754-3543
Steve Felte,
General Manager

City of Sheldon
Box 276
Sheldon, Iowa 51201
(712) 324-4601
Lawrence P. Huntley,
City Manager

Weber Basin Water Conservation District
2837 E. Highway 193
Layton, Utah 84040
(801) 825-1677
Ivan Flint, General Manager

Austria

Verband der Elektrizitatswerke Osterreichs
Brahmsplatz 3
Vienna A1040, Austria
Hanns Orglmeister,
Geschaftsfuhrer

Bahamas

Bahamas Electricity Corp.
Box N-7509
Nassau, Bahamas
(809) 328-7700
Peter I. Bethel, General Manager

Belize

Belize Electricity Board
Box 327
Belize City, Belize
Pedro Heredia

Canada

Canadian Electrical Assocation
Suite 1600, 1 Westmount Square
Montreal, Quebec, H3Z 2P9
Canada
(514) 937-6181
Wallace S. Read, President

Electrical Utilities Safety Association of Ontario
220 Traders Blvd. East
Mississauga, Ontario, L4Z 1W7
Canada
(416) 890-1011
C. J. Tallon, General Mgr. & Sec'y-Treasurer

Halton Hills Hydro Electric Commission
43 Alice St.
Acton, Ontario, L7J 2A9 Canada
(416) 877-2275
G. R. Trudell, General Manager

Hydro-Quebec
75 boul. Rene-Levesque ouest, 7e etage
Montreal, Quebec, H2Z 1A4
Canada
(514) 289-2211
Jean Bernier, General Secretary

Municipal Electric Association (of Ontario)+
20 Eglinton Ave. W., #500, Box 2004
Toronto, Ontario, M4R 1K8
Canada
(416) 483-7739
Tony Jennings, Chief Executive Officer

New Brunswick Power
515 King St., P.O. Box 2000
Fredericton, New Brunswick, E3B 4X1 Canada
(506) 458-4444
G. L. Titus, President

North York Hydro
5800 Yonge St.
North York, Ontario, M2M 3T3
Canada
(416) 229-5116
A. Donald McKee,
General Manager

Ontario Hydro
700 University Ave. - H19 A27
Toronto, Ontario, M5G 1X6
Canada
(416) 592-5111
Alan Holt, President & CEO

Sudbury Hydro Electric Commission
500 Regent St. S.
Box 250
Sudbury, Ontario P3E4PI
(705) 675-7536
Doug Scott, General Manager and Secretary

Toronto Hydro Electric System
14 Carlton St.
Toronto, Ontario, M5B 1K5
Canada
(416) 599-0400
Douglas Doherty,
General Manager

Costa Rica

Instituto Costarricense de Electricidad
Apartado 10032
San Jose, Costa Rica
Mario Hidalgo Pacheco,
General Manager

Other APPA Member Systems (continued)

Germany

Verband kommunaler Unternehmen e.V. (German Association of Public Utilities)
Brohler Strasse 13
5000 Koln 51, Germany
Fritz Gautier, Deputy Executive Director

Italy

Azienda Energetica Municipale - Milano
Corso di Porta Vittoria 4
Milano 20122, Italy
Augusto Scacchi, Managing Director

New Zealand

Electricity Supply Association of New Zealand Inc.
Box 1017
Wellington, New Zealand
P. B. Leay, Executive Director

West Indies

Jamaica Public Service Co., Ltd.
6 Knutsford Boulevard, Box 54
Kingston 10 Jamaica, W. Indies
(809) 926-3190
Orville W. Cox, Chairman & Chief Executive

Trinidad & Tobago Electric Commission
Box 121 - 63 Frederick St., Port of Spain
Trinidad, W. Indies
Leo C. Martin, General Manager

Municipally Owned Cable Television Systems

compiled by Stacey Hobart

Communities marked with an asterisk also have a municipally owned electric system.
Year in parentheses indicates date cable system began operating.

ALABAMA

Lincoln Cable TV
Box 172
Lincoln, Ala. 35096
Sidney Fomby Jr., 205/763-7777
1,013 subscribers; 30 channels; basic monthly rate: $14.50; structure: separate department; financing: city loan (1983)

Opp Cablevision*
Box 311
Opp, Ala. 36467
Charles McGowan, 205/493-4571
3,311 subscribers; 30 channels; basic monthly rate: $11; utility use: no; structure: under utility department; financing: city operating revenues (1967)

Riviera Utilities*
413 E. Laurel Ave.
Box 550
Foley, Ala. 36536
H. Sewell St. John Jr., 205/943-5001
3,297 subscribers; 31 channels; basic monthly rate: $11.75; utility use: no; structure: separate function of utilities board; financing: retained earnings of utilities board (1982)

ALASKA

Angoon Cable Vision
Box 189
Angoon, Alaska 99820
907/788-3653
106 subscribers; 12 channels; basic monthly rate: $39.35; structure: department of city (1982)

Kake, City of
Box 500
Kake, Alaska 99830
Cindy Martin, 907/785-3804
154 subscribers; 15 channels; basic monthly rate: $32.45; structure: department of city (1984)

Kiana, City of
Box 150
Kiana, Alaska 99749
Arlene Richards, 907/475-2136
70 subscribers; basic monthly rate: $25; structure: department of city; financing: grant (1984)

Kotlik, City of*
Utility Office 20068
Kotlik, Alaska 99620
Joseph Mike, 907/899-4926
57 subscribers; 8 channels; basic monthly rate: $35; utility use: meter reading; structure: department of electric utility; financing: state grant (1988)

ARKANSAS

Conway Corp.*
Box 99
Conway, Ark. 72032
William M. Hegeman, 501/450-6000
9,174 subscribers; 29 channels; basic monthly rate: $10.95; utility use: load control (metering planned); structure: owned by city and leased to municipal Conway Corp.; financing: loan from utility department (1980)

Lockesburg Cablevision
Box 14
Lockesburg, Ark. 71846
Mike Brown, 501/289-3261
301 subscribers; 19 channels (capacity is 20); basic monthly rate: $18; structure: department of city; financing: revenues from sale of city gas system (1982)

Paragould City Cable*
303 West Court
Paragould, Ark. 72450
Jack Brinkley, 501/239-7700
2,700 subscribers; 53 channels; basic monthly rate: $12.50; utility use: no; structure: under utility; financing: general obligation bonds (1991)

CALIFORNIA

San Bruno Municipal Cable TV
567 El Camino Real
San Bruno, Calif. 94066
David A. Thomas, 415/877-8889
11,150 subscribers; 51 channels (capacity is 58); basic monthly rate: $12.55; structure: separate department of city; financing: rebuilt with revenues from previous cable system (1971)

COLORADO

Center Municipal Cable System*
Box 400
Center, Colo. 81125
Darrell T. Davis, 719/754-3497
549 subscribers; 19 channels; basic monthly rate: $8; utility use: load control; structure: separate entity controlled by utility board; financing: loan from utility surplus to be paid back by cable department with interest (1984)

Copper Mountain Metropolitan District Cable TV
Box 3195
Copper Mountain, Colo. 80443
Bruce Smith, 303/968-2537
863 subscribers; 26 channels (capacity is 60); basic monthly rate: $26.50; structure: under Metropolitan District (similar to city government); financing: general obligation bonds (1976)

FLORIDA

Newberry, City of*
City Hall
Newberry, Fla. 32669
Bob Little, 904/472-2161
597 subscribers; 23 channels; basic monthly rate: $10; utility use: no; structure: part of utility department; financing: separate cable fund (1974)

Valparaiso Communications
Box 296, 465 Highway 190
Valparaiso, Fla. 32580
Burt B. Bennett, 904/729-5402
1,549 subscribers; 40 channels; basic monthly rate: $9.50; structure: separate department of city; financing: cable fund (1976)

GEORGIA

Covington Cable TV*
Box 1527
Covington, Ga. 30209
Gary Curtis, 404/787-4444
5,587 subscribers; 29 channels; basic monthly rate: $15; utility use: air-conditioning load management; structure: separate department of city; financing: city's general fund (1980)

Monroe, City of*
Box 725
Monroe, Ga. 30655
John T. Briscoe Jr., 404/267-5756
4,014 subscribers; 35 channels; basic monthly rate: $7.50; utility use: air-conditioning load management; structure: under

utility department; financing: cable fund (1972)

IOWA

Coon Rapids Cable System*
123 Third Ave., Box 207
Coon Rapids, Iowa 50058
Eugene P. Smith, 712/684-2225
404 subscribers; 17 channels; basic monthly rate: $13.50; utility use: no; structure: operated by utility, separate board for policy; financing: utility reserve funds (1982)

Cable TV Corp. of Dayton*
101 S. Main St.
Dayton, Iowa 50530
Shirley Miller, 515/547-3342
245 subscribers; 17 channels (capacity is 35); basic monthly rate: $14.50; utility use: no; structure: department of utility; financing: revenue bonds (1983)

Hartley Municipal Cable System*
169 S. Central Ave.
Hartley, Iowa 51346
Dean Meyer, 712/728-2240
715 subscribers; 22 channels; basic monthly rate: $10; utility use: maybe load management; structure: separate department of city; financing: loan from surplus electric funds (1983)

Lenox Municipal Cablevision*
205 S. Main St.
Lenox, Iowa 50851
David Ferris, 515/333-2550
517 subscribers; 17 channels; basic monthly rate: $13; utility use: load management and meter reading planned; structure: department of city, operated by utility; financing: loan from electric utility (1988)

Manilla Municipal Cable*
166 Sixth Ave.
Manilla, Iowa 51454
James H. Macumber, 712/654-3952
425 subscribers; 12 channels; basic monthly rate: $9.95; utility use: no; structure: separate department of utility; financing: loan from electric fund (1983)

Manning Municipal Cable Board*
719 Third St.
Manning, Iowa 51455
Gerald Beck, 712/653-3214
580 subscribers; 23 channels (capacity is 30); basic monthly rate: $11; utility use: load management; structure: separate board within utility; financing: electric revenue bonds for load management, gas department surplus for the rest (1982)

Primghar Municipal Cable TV*
155 First St. S.W.
Primghar, Iowa 51245
Robert Mulder, 712/757-2435
345 subscribers; 26 channels (capacity is 32); basic monthly rate: $11.50; utility use: load management; structure: part of utility department; financing: general obligation bonds (1981)

Community Cable Television*
City of Sanborn
102 Main St.
Sanborn, Iowa 51248
Allen Bonderman, 712/729-3374
466 subscribers; 26 channels (capacity is 36); basic monthly rate: $9.50; utility use: load management/air conditioners and water heaters; structure: separate department of utility; financing: utility funds and corporation revenue bonds (1981)

Wall Lake Municipal Cable*
418 Second St.
Wall Lake, Iowa 51466
Sharon Faber, 712/664-2216
250 subscribers; 16 channels; basic monthly rate: $12; utility use: no; structure: under city government; financing: utility funds (1982)

KANSAS

Altamont Cable System*
Box 305
Altamont, Kan. 67330
Lizabeth Finley, 316/784-5612
342 subscribers; 18 channels (capacity is 36); basic monthly rate: $16.95; utility use: no; structure: separate department of city; financing: revenue bonds (1983)

Baxter Cablevision
City of Baxter Springs
Box 577
Baxter Springs, Kan. 66713
C. Michael Hall, 316/856-2727
1,344 subscribers; 16 channels (capacity is 21); basic monthly rate: $11.95; structure: separate department of city; financing: industrial revenue bonds (1980)

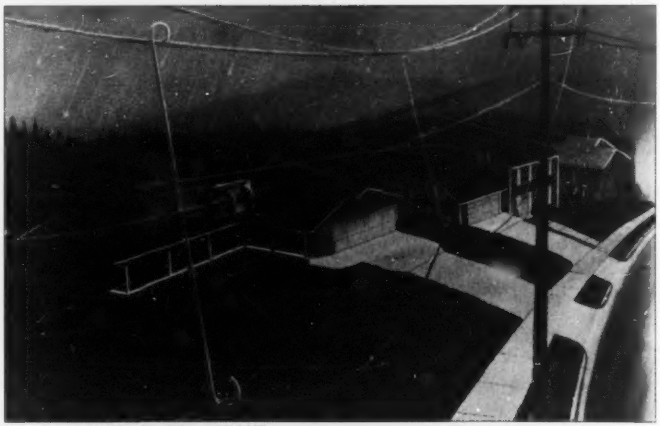
Cawker City, City of*
Box 2
Cawker City, Kan. 67430
Wayne Musgrove, 913/781-4713
254 subscribers; 26 channels; basic monthly rate: $10;

Solve your downed line hazards

Concerned about the hazards of fallen primary distribution lines? Especially in populated areas? Now Alcoa offers you a practical solution—the Falgard™ broken conductor guard.

Two to four Falgards per span will effectively ground broken conductors, protecting lives and property. Falgard contacts conductors high off the ground and makes a solid, reliable short circuit. Faults are detected quickly, and fused lines are de-energized immediately.

Falgard is available in 4' to 14' widths for various crossarm conductor separations. The product has been successfully field-tested for several years by a Florida utility.



Falgard is protected by U.S. patent no. 4,616,287

Incorporate the Falgard today into your utility's protection scheme to help guard against the hazards of fallen distribution conductors. For more information, contact us today.

ALCOA
Alcoa Conductor Accessories
Division of Alcoa Fujikura Ltd.
P.O. Box 5631 • Spartanburg SC 29304
Tel. 803-439-1739
Fax 803-439-5160
© 1992 Alcoa Conductor Accessories 300058

utility use: exploring load management, meter reading; structure: separate department of utility; financing: utility revenue bonds, all paid off (1977)

Columbus Cablevision
300 E. Maple
Columbus, Kan. 66725
Gail Houser, 316/429-2159
842 subscribers; 10 channels; basic monthly rate: $12; structure: separate city department; financing: revenue bonds (1980)

Courtland Cable TV
Box 143
Courtland, Kan. 66939
Tim Garman, 913/374-4355
150 subscribers; 16 channels; basic monthly rate: $13; structure: separate department of city; financing: revenue bonds (1982)

KENTUCKY

Bardstown Cable TV*
220 N. Fifth St., Box 368
Bardstown, Ky. 40004
Lawrence A. Hamilton, 502/348-9711
3,900 subscribers; 33 channels (capacity is 35); basic monthly rate: $13.00 in town and $14.75 out of town; utility use: no; structure: separate department of city; financing: revenue bonds (1985)

Community Cable Service Division*
315 W. Second St.
Frankfort, Ky. 40601
Warner Caines, 502/227-7513
11,200 subscribers; 35 channels; basic monthly rate: $9.70; utility use: no; structure: nonprofit corporation under utility board; financing: initial loan from electric funds, later from cable revenues (1952)

Glasgow, City of*
100 Mallory Dr.
Box 666
Glasgow, Ky. 42141
William Ray, 502/651-8341
1,200 subscribers; 47 channels; basic monthly rate: $13.50; utility use: load management, data acquisition, experimental telephone and data communication, and meter reading planned; structure: division of the electric utility; financing: bank loan (1989)

Williamstown Cable TV*
400 N. Main St.
Williamstown, Ky. 41097
Chuck Hudson, 606/824-3352
732 subscribers; 26 channels (capacity is 35); basic monthly rate: $12.95; utility use: no; structure: department of utility; financing: bank loan (1985)

MARYLAND

Easton Cable TV*
142 N. Harrison St.
Box 1189
Easton, Md. 21601
Bill Russell, 301/822-6110
3,650 subscribers; 39 channels (capacity is 64); basic monthly rate: $8.90; utility use: no; structure: separate department of utility (Easton Utilities Commission); financing: general obligation bonds (1984)

MASSACHUSETTS

Shrewsbury Community Cable*
100 Maple Ave.
Shrewsbury, Mass. 01545
Thomas R. Josie, 508/845-4881
8,000 subscribers; 59 active channels; expanded basic monthly rate: $17.20; utility use: emergency alert system, institutional network, energy management; structure: separate department of utility (Shrewsbury's Electric Light Plant); financing: general obligation bonds (1983)

MICHIGAN

Crystal Falls, City of*
401 Superior Ave.
Crystal Falls, Mich. 49920
Walter E. Hagglund, 906/875-6647
837 subscribers; 12 channels (capacity is 21); basic monthly rate: $5.50; utility use: no; structure: part of utility; financing: loan from city's general fund (1959)

Lowell Cable TV*
127 N. Broadway
Lowell, Mich. 49331
Herbert Haines, 616/897-8405
1,875 subscribers; 28 channels; basic monthly rate: $17.55; utility use: no; structure: separate department of city; financing: funds from electric utility (1982)

Negaunee Cable Television System*
Box 70
Negaunee, Mich. 49866
John D. Korhonen, 906/475-7700
1,360 subscribers; 26 channels; basic monthly rate: $8.95; utility use: no; structure: separate department of utility; financing: utility reserve funds (1984)

Norway CATV*
Box 194
Norway, Mich. 49870
Tom Pearman, 906/563-9641
1,534 subscribers; 21 channels (capacity is 36); basic monthly rate: $5.25; utility use: emergency warning system; structure: part of utility; financing: utility general fund (1954)

Wyandotte Municipal Service*
3005 Biddle Ave.
Wyandotte, Mich. 48192
Ted Olszewski, 313/282-7100, ext. 364
9,491 subscribers; 52 channels; basic monthly rate: $12; utility use: plan to use for meter reading; structure: separate department of utility; financing: lease system from private investors with purchase agreement at a fixed date (1982)

MINNESOTA

Bagley City Cable TV*
Box M
Bagley, Minn. 56621
Michael Monsrud, 218/694-2300
545 subscribers; 16 channels; basic monthly rate: $8.65; utility use: no; structure: separate department of utility; financing: cable revenue bonds (1976)

Fosston Cable TV*
220 First St. N.E.
Fosston, Minn. 56542
Russell Earls, 218/435-1737
605 subscribers; 21 channels; basic monthly rate: $8; utility use: load management; structure: separate department of utility; financing: cable revenue bonds (1976)

Jackson Municipal TV System*
80 W. Ashley St.
Jackson, Minn. 56143
Curt Egeland, 507/847-3225
1,584 subscribers; 28 channels; basic monthly rate: $5; utility use: no; structure: separate department of city; financing: installation fees of original subscribers (1957)

Marble, City of
Box 38
Marble, Minn. 55764
Carolyn Kolar, 218/247-7576
230 subscribers; 16 channels; basic monthly rate: $7; structure: separate department of city; financing: city general fund (1983)

Windom Cable Communications System*
444 Ninth St.
Windom, Minn. 56101
Dennis Nelson, 507/831-2363
1,370 subscribers; 28 channels (capacity is 34); basic monthly rate: $12.95; utility use: emergency alert system; structure: separate department of city; financing: loan from utility commission (1985)

MISSOURI

Newburg Cable TV System
Drawer K
Newburg, Mo. 65550
Barbara Macormic, 314/762-2315
250 subscribers; 12 channels; basic monthly rate: $8.50; structure: operated through

AN ELECTRIC IN YOUR FLEET?

A growing number of utilities have decided it is good business to be involved with the future – **today**.

PHONE: (407) 254-2997
OR FAX: (407) 254-4773
ABOUT OUR NEW S-10 / S-15 PICKUP TRUCK KIT

SEND $5.00 FOR OUR NEW CATALOG
(Refundable With Order)

SOLAR CAR CORPORATION

Electric Vehicles • Components • Kits
1300 Lake Washington Rd.
Melbourne, Florida 32935

city hall; financing: borrowed from private development corporation (1968)

Unionville Cable Authority*
1621 Grant St., Box 206
Unionville, Mo. 63565
Morgan J. Brown, 816/947-3316
895 subscribers; 20 channels (capacity is 30); basic monthly rate: $12; utility use: emergency alert system; structure: separate department of city; financing: cable revenue bonds (1980)

OREGON

Cascade Locks CATV*
Box 308
Cascade Locks, Ore. 97014
George Lewis, 503/374-8484
397 subscribers; 18 channels (capacity is 36); basic monthly rate: $13; utility use: no; structure: separate department of utility; financing: cable revenue bonds (1972)

Lexington, Town of
Lexington, Ore. 97839
Mayor Robert Taylor, 503/989-8508
100 subscribers; 11 channels; basic monthly rate: $7.50; structure: separate department of city; financing: cable service revenues (1959)

PENNSYLVANIA

New Wilmington Borough Cable TV*
140 W. Neshannock Ave.
New Wilmington, Penn. 16142
Ed Garrett, 412/946-8167
535 subscribers; 21 channels; basic monthly rate: $6; utility use: no; structure: separate department of borough; financing: general fund (1979)

Pitcairn Community Antenna System*
582 Sixth St.
Pitcairn, Penn. 15140
George Myers, 412/372-6500
1,604 subscribers; 31 channels (capacity is 35); basic monthly rate: $9.75; utility use: no; structure: under light department; financing: installation fees of original subscribers ($75) and bank loans (1953)

SOUTH DAKOTA

Beresford Cablevision*
101 N. Third St.
Beresford, S.D. 57004
Wayne Akland, 605/763-2500
669 subscribers; 23 channels (capacity is 36); basic monthly rate: $7.95; utility use: no; structure: maintained by city telephone department; financing: general city fund (1983)

WASHINGTON

North Bonneville Community Cable TV
Box 7
North Bonneville, Wash. 98639
Ray Hays, 509/427-8182
161 subscribers; 13 channels; basic monthly rate: $10; structure: part of city utility department; financing: city capital improvement fund (1982)

Sumas TV Cable System*
Box 9, Cherry St.
Sumas, Wash. 98295
Lawrence Silvis, 206/988-5711
290 subscribers; 13 channels; basic monthly rate: $7.50; utility use: no; structure: under utility; financing: city light fund and residents' fee (1953)

WEST VIRGINIA

Philippi Communications System*
P.O. Box 460
Philippi, W.Va. 26416
Joseph Mattaliano, 304/457-3701
1,400 subscribers; 34 channels; basic monthly rate: $17; utility use: no; structure: separate department of city; financing: revenue bonds (1986)

WISCONSIN

Oconto Falls Cable TV\8
104 S. Franklin St., Box 70
Oconto Falls, Wis. 54154
Gary Haltaufderheide, 414/846-2911
665 subscribers; 26 channels; basic monthly rate: $12.50; utility use: maybe meter reading; structure: separate department of utility commission; financing: bank loan backed by city (1981)

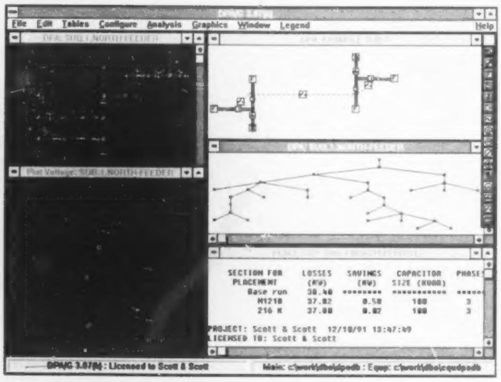
Two Creeks Cable TV
5711 Nuclear Road
Two Rivers, Wis. 54241
Mary Ann Cherveny, 414/755-2221
145 subscribers; 30 channels (capacity is 52); basic monthly rate: free; structure: part of city government (1986)

WYOMING

Bairoil Cable System
Box 58
Bairoil, Wyo. 82322
Zane Bennett, 307/324-7653
70 subscribers; 14 channels; basic monthly rate: $26.85; utility use: no; structure: self-supporting department of the town; financing: loan from general fund (has been paid off) (1981)

small enough to hear your voice

LARGE ENOUGH TO RESPOND.


File
Edit
Tables
Configure
Analysis
Graphics
Window
Legend
Help
DPA: SUB.1.NORTH-FEEDER
Plot Voltage: SUB.1.NORTH-FEEDER
DPA: SUB.1.NORTH-FEEDER
DPA/G 3.07(b) : Licensed to Scott & Scott
Main: c:\work\dbo\dpadb : Equp: c:\work\dbo\equdpadb

```
SECTION FOR     LOSSES    SAVINGS    CAPACITOR    PHASES
PLACEMENT        (KW)      (KW)     SIZE (KVAR)
   Base run      38.40   ********   ***********   *****
     M1218       37.82       0.58       100          3
     216 K       37.00       0.02       100          3

PROJECT: Scott & Scott  12/10/91 13:47:49
LICENSED TO: Scott & Scott
```

Call or write for product information and free demonstration software.

2101 Fourth Avenue, Suite 303
Seattle, WA 98121-2375
1-800-325-1494; FAX 206-441-9808

You need solutions that work for distribution engineering, operations and geographic information systems. Leading-edge answers to real-world problems. A company with over 15 years of experience. One with over 600 systems installed worldwide, serving utilities whose sizes range from 3,000 to over 1,000,000 customers.

A company of engineers and computer professionals who know you by name and are familiar with your unique situation. A company who really listens — and knows how to respond. You need…

SCOTT & SCOTT
INTEGRATED
SOFTWARE
SOLUTIONS

APPA Corporate Associate Members

Arnold & Porter
1200 New Hampshire Ave. N.W.
Washington, D.C. 20036
(202) 872-6700

Bear, Stearns & Co. Inc.
245 Park Ave., 13th Floor
New York, N.Y. 10167
(212) 952-5740

Bechtel Power Corp.
Box 60860 Terminal Annex
Los Angeles, Calif. 90060

R.W. Beck & Associates
2121 Fourth Ave.
Seattle, Wash. 98121
(206) 441-7500

Black & Veatch
Box 8405
Kansas City, Mo. 64114
(913) 967-2000

Burns & McDonnell
Box 419173
Kansas City, Mo. 64141-0173
(816) 333-4375

Canada Wire & Cable Limited
22 Commercial Road
Toronto, Ontario M4G 3W1
Canada
(416) 424-5000

CH2M Hill, Inc.
Box 91500
Bellevue, Wash. 98009-2050
(206) 453-5000

Davidson, Troilo & Booth
613 N.W. Loop 410, Suite 1000
San Antonio, Texas 78216
(512) 349-6484

Dean Witter Reynolds, Inc.
2 World Trade Center,
59th floor
New York, N.Y. 10048
(212) 392-3478

Debevoise & Plimpton
875 Third Ave.
New York, N.Y. 10022
(212) 909-6000

Deloitte & Touche
1200 Travis
Houston, Texas 77002-6003
(713) 651-1700

Dillon, Read & Co., Inc.
535 Madison Ave.
New York, N.Y. 10022
(212) 906-7000

Donaldson, Lufkin & Jenrette
Public Finance Division,
140 Broadway, 41st floor
New York, N.Y. 10005
(212) 902-2429

Duncan & Allen
1575 Eye St. N.W., Suite 300
Washington, D.C. 20005-1175
(202) 289-8400

Duncan, Weinberg, Miller & Pembroke, P.C.
1615 M St. N.W., Suite 800
Washington, D.C. 20036
(202) 467-6370

Eastern Electric Apparatus Repair Co., Inc.
Box 7588
Princeton, N.J. 08543-7588
(609) 844-0044

Electric Power Research Institute
Box 10412
Palo Alto, Calif. 94303
(415) 855-2000

First Boston Corp.
Tower Forty-Nine, 12 E. 49th St.
New York, N.Y. 10017
(212) 909-2921

First Pacific Networks
601 W. California Ave.
Sunnyvale, Calif. 94086
(408) 730-6600

Gamma Vision, Inc.
600 University St., Suite 2020
Seattle, Wash. 98101
(206) 223-0000

General Electric Company
1 River Road
Schenectady, N.Y. 12345

Goldman, Sachs & Co.
Municipal Finance Department,
85 Broad St.,
26th floor
New York, N.Y. 10004
(212) 902-1000

Kidder, Peabody & Co.
10 Hanover Square
New York, N.Y. 10005
(212) 510-3410

Lutz, Daily & Brain Consulting Engineers
Cloverleaf 4 Bldg., 6400
Glenwood
Overland Park, Kan. 66202
(913) 831-0833

Charles T. Main, Inc.
Prudential Center
Boston, Mass. 02199
(617) 262-3200

Marsh & McLennan Worldwide
1166 Ave. of the Americas,
39th floor
New York, N.Y. 10036-2774
(212) 345-6000

Matthews & Wright
2 World Trade Center, #2112
New York, N.Y. 10048-0203
(212) 267-4470

Merrill Lynch Municipal Markets
World Financial Center, North
Tower, 10th Floor
New York, N.Y. 10281
(212) 637-7455

Moody's Investors Service
99 Church St.
New York, N.Y. 10007
(212) 553-7202

J.P. Morgan Securities Inc.
Public Finance Department, 60
Wall St.
New York, N.Y. 10260
(212) 648-4409

Morgan Stanley & Co., Inc.
1251 Ave. of the Americas,
39th Floor
New York, N.Y. 10020
(212) 974-4000

Mudge, Rose, Guthrie, Alexander & Ferdon
180 Maiden Lane
New York, N.Y. 10038
(212) 510-7212

John Nuveen & Co., Inc.
2740 Pacific First Centre,
1420 Fifth Ave.
Seattle, Wash. 98101-2333
(206) 587-0959

KPMG Peat Marwick Certified Public Accountants
Box 31002
St. Petersburg, Fla. 33732-9963
(813) 822-8521

Prudential-Bache Capital Funding
Public Finance Department,
100 Gold St., 6th floor
New York, N.Y. 10292
(212) 776-1000

Resource Management International, Inc.
Box 15516
Sacramento, Calif. 95852-1516
(916) 852-1300

Saffer, Vumbaco, Brown & Kersten
3655 Maguire Boulevard,
Suite 150
Orlando, Fla. 32803
(407) 898-8531

Shearson Lehman Brothers Inc
American Express Tower,
World Finance Center, 8th Floor
New York, N.Y. 10285-0800
(212) 298-2000

Smith Barney
1345 Ave. of the Americas
New York, N.Y. 10105
(212) 399-6354

Spiegel & McDiarmid
1350 New York Ave. N.W.,
11th Floor
Washington, D.C. 20005
(202) 879-4000

Standard & Poors Corp.
25 Broadway
New York, N.Y. 10004
(212) 208-8000

Stanley Consultants, Inc.
Stanley Building
Muscatine, Iowa 52761
(319) 264-6423

Stewart & Stevenson Services, Inc.
16415 Jacintoport Blvd.
Houston, Texas 77015
(713) 457-7542

Stone & Webster Engineering Corp.
Box 2325
Boston, Mass. 02107
(617) 589-5111

U.S. Department of Energy
1000 Independence Ave. S.W.
Washington, D.C. 20545
(202) 252-5000

Vermont Electric Power Co.
Box 548
Rutland, Vt. 05701
(802) 773-9161

Verner, Liipfert, Bernhard, McPherson & Hand
901 15th St. N.W., Suite 700
Washington, D.C. 20005-2301
(202) 371-6000

Westinghouse Electric Corp.
4400 Alfaya Trail, MC-475, The
Quadrangle
Orlando, Fla. 32826
(407) 281-2375

Wood, Dawson, Smith & Hellman
17 Battery Place
New York, N.Y. 10004
(212) 244-0450

Zurn/NEPCO
18578 N.E. 67th Court,
Box 747
Redmond, Wash. 98073
(206) 869-3103

APPA Individual Associate Members

Underwood Neuhaus
909 Fannin St.
Houston, Texas 77010-1060
(800) 366-8626

Pentti J. Aalto
720 Buck St.
Pembroke, N.H. 03275

Raymond Allustiarti
SAI Engineers, Inc.
3030 Patrick Henry Drive
Santa Clara, Calif. 95054-0979

Allen E. Anderson
NBR 219,
4242 N. Capistrano Dr.
Dallas, Texas 75287
(214) 248-2895

J. R. Anderson
Mobil Coal Producing, Inc.
Box 17772
Denver, Colo. 80217
(303) 293-6000

Warick P. Angelini
49 Newcastle St.
Palmerston North,
New Zealand

Steve A[illegible]felbacher
Ehlers [illegible] Associates, Inc.
2950 Norwest Center, 90
South Seventh St.
Minneapolis, Minn. 55402
(612) 339-8291

William R. Archibald
SeaWest Industries, Inc.
1455 Frazee Road, Suite 300
San Diego, Calif. 92108
(619) 293-3340

Robert A. Bacyinski
Michcon
500 Griswold, 31st Floor
Detroit, Mich. 48226
(313) 256-5121

Robert Baletti
Kvaerner Hydro Power, Inc.
Box 7067
San Francisco, Calif. 94120
(415) 777-3800

Karl Baltensperger
Brown Boveri, Inc.
1460 Livingston Ave.
North Brunswick, N.J. 08902
(201) 932-6000

Bruce F. Barnes Jr.
Barnes, Henry, Meisenheimer & Gende
4658 Gravois Ave.
St. Louis, Mo. 63116
(314) 352-8630

Thomas M. Barnes
Allen & Hoshall, Inc.
50 Century Blvd., Suite 100
Nashville, Tenn. 37214
(615) 889-0370

W. A. Baxter
EG&G Idaho, Inc.
Box 1625 - 4115
Idaho Falls, Idaho 83415
(208) 526-6472

Judi A. Bearzi
Gordon, Thomas, Honeywell, Malanca, Peterson & Daheim
2200 First Interstate Plaza, Box 1157
Tacoma, Wash. 98401
(206) 572-5050

David Beatty
Westpac Banking Corp.
225 W. Washington, 28th Floor
Chicago, Ill. 60606
(312) 630-0170

Sean T. Beeny
Brand, Beeny, Berger & Whitler
1730 K St. N.W., Suite 1000
Washington, D.C. 20006
(202) 347-7002

Park Benjamin
Manufacturers Hanover Trust Co
270 Park Ave., 4th Floor
New York, N.Y. 10017
(212) 286-2482

Greg Benson
Eaton Corp.
4200 Highway 30 East
Kearney, Neb. 68848
(308) 234-1841

Michael K. Bergman
Instar Community Systems, Inc.
357 Skyline Drive
Hamilton, Mont. 59840
(406) 363-6614

Arnold D. Berkeley
Arnold D. Berkeley Law Office
1819 H St. N.W., Suite 360
Washington, D.C. 20006
(202) 785-0611

James J. Berry
Smith & Gillespie Engineers, Inc.
Box 53138
Jacksonville, Fla. 32201
(904) 743-6950

Statement of Ownership, Management and Circulation

Don't spend a fortune on EMF measurement

The ELF Alert™ series of milligauss meters permit accurate, low-cost measurement of ELF/power frequency magnetic fields.

- Digital LCD display with resolution to 0.1 mG
- Accurate to 1% at 60/50 Hz
- Lightweight, pocket size, self-contained unit facilitates quick, easy measurements
- Ideal for customer service use and field surveys
- Quality made in U.S.A.
- Low cost...models start at $99.95

TESLATRONICS
(904) 462-2010
ONE PROGRESS BLVD. #25 • ALACHUA, FL 32615

Paul R. Bjorn
Price Waterhouse
B.P. America Building, 200
Public Squre, 27th floor
Cleveland, Ohio 44114-2301
(216) 781-3700

H. Paul Blaeser
Blaeser Engineering Services, Inc.
7031 Corporate Way
Dayton, Ohio 45459
(513) 434-4637

G.Lawrence Bliss
Duff & Phelps Credit Rating Co.
55 E. Monroe St.
Chicago, Ill. 60603
(312) 368-3190

Paul J. Blomberg
Orr Schelen Mayeron & Assoc.
2021 E. Hennepin Ave.
Minneapolis, Minn. 55413
(612) 331-8660

Gregory L. Booth
Booth & Associates, Inc.
1011 Schaub Drive
Raleigh, N.C. 27606

Richard C. Boynton
Pyropower Corp.
Box 85480
San Diego, Calif. 92138

Richard B. Brady
J.S. Sawvel & Associates
750 N. 200 W., Suite 203 B
Provo, Utah 84601
(801) 374-0024

Wallace E. Brand
Brand, Beeny, Berger & Whitler
1730 K St. N.W., Suite 1000
Washington, D.C. 20006
(202) 347-7002

Michael J. Brophy
Ryley, Carlock & Applewhite
101 N. First Ave., Suite 2600
Phoenix, Ariz. 85003

Roy Brunson
Power House Marketing
Route 1, Box 843
Cropwell, Ala. 35054
(205) 525-4701

William H. Burchette
Jorden Schulte & Burchette
1025 Thomas Jefferson St.,
N.W., Suite 400 East
Washington, D.C. 20005
(202) 965-8100

James C. Burr
Chapman and Cutler
50 S. Main St., Suite 800
Salt Lake City, Utah 84144

Leonard M. Campbell
Gorsuch, Kirgis, Campbell, Walker & Grover
Box 17180
Denver, Colo. 80217-0180

Phillip N. Cantner
Falcon Seaboard Oil Co.
Five Post Oak Park,
Suite 1400
Houston, Texas 77027
(713) 622-0055

J. Vincent Carey
Alpha Omega International Corp.
401 Bounty Way, #153
Avon Lake, Ohio 44012-2474

Herschell A. Cashion
North American Coal Corp.
13140 Coit Road, Suite 400,
Lock Box 138
Dallas, Texas 75240-7584

Gary Casino
Chemical Bank
277 Park Ave., 11th Floor
New York, N.Y. 10172
(212) 310-6161

Philip L. Chabot Jr.
Law Office of Philip Chabot
1575 I St., N.W., Suite 300
Washington, D.C. 20005
(202) 347-7002

Lloyd E. Chapman
Philips Lighting Co.
200 Franklin Square Drive,
Box 6800
Somerset, N.J. 08875-6800
(201) 563-3491

Everette E. Chartier
Merrick & Company
Box 22026
Denver, Colo. 80222
(303) 751-0741

Our goal is to meet and exceed customer expectations through quality products and quality service.

LEXINGTON
TULSA
NASHVILLE
JOHNSON CITY
JACKSON
MUSKOGEE
MEMPHIS
CHATTANOOGA
TUPELO
LITTLE ROCK
RIDGELAND
MONROE
JACKSON
DALLAS
SHREVEPORT
VICKSBURG
HATTIESBURG
MOBILE
McCOMB
PENSACOLA
PASCAGOULA
21 DIVISIONS IN 9 STATES

UTILITIES SERVED
196 MUNICIPALS . . . . 3,189,000 meters
171 RECs . . . . 3,475,000 meters
18 INVESTOR-OWNED. . . 4,150,000 meters
10,814,000 Total

- High-tech personnel serving 16 states
- Inventory equipment and warehousing to serve your daily needs
- Professional high-volume utility material suppliers
- We make it **easy to do business**

IRBY
SINCE 1926
Stuart C. Irby Co.
HOME OFFICE, 815 South State Street, Jackson, Mississippi 39215-1819
(601) 969-1811
UTILITY MATERIAL SUPPLIER FOR THE SOUTH

Janjai Chayavadhanangkur
Southern Engineering Co. of Georgia
1800 Peachtree St. N.W.
Atlanta, Ga. 30367

Randall S. Cheloha
RHR International Company
2 Penn Center, #1722
Philadelphia, Pa. 19102
(215) 564-1442

Albert Cheng
Metropolitan Water District of Southern California
1111 Sunset Blvd., Box 54153
Terminal Annex
Los Angeles, Calif. 90054
(213) 250-6488

Drew Child
OrCom Systems, Inc.
1001 S.W. Disk Drive
Bend, Ore. 97702
(800) 338-8233

Linda A. Clark
Piper, Jaffray & Hopwood, Inc.
Suite 2100, 1050 17th St.
Denver, Colo. 80265
(303) 820-5888

Stephen B. Clark
Piper, Jaffray & Hopwood, Inc.
Suite 2100, 1050 17th St.
Denver, Colo. 80265
(303) 820-5888

C. J. Collins
Empire Engineering
420 E. Genesee St.
Syracuse, N.Y. 13202
(315) 475-0120

Mary Collins
Planmetrics, Inc.
8700 W. Bryn Mawr Ave.,
Suite 800 N
Chicago, Ill. 60631
(312) 693-0200

Michael S. Colo
Poyner & Spruill
133 S. Franklin St., Box 353
Rocky Mount, N.C. 27802-0353
(919) 446-2341

John V. Connorton Jr.
Hawkins Delafield & Wood
67 Wall St.
New York, N.Y. 10005
(212) 820-9300

O. Wayne Corley
McNair Glenn Konduros & Corley
Box 11390
Columbia, S.C. 29211
(803) 799-9800

John T. Courtney
Courtney & Associates
1720 N. Ridge Road
Findlay, Ohio 45839
(419) 425-2719

Karen Covey
Putnam Management Company
One Post Office Square
Boston, Mass. 02109

John T. Crandall
Kirchner Moore & Co.
60 East South Temple,
Suite 790-39
Salt Lake City, Utah 84111
(801) 538-0351

Charles B. Crane
Marsh & McLennan, Inc.
720 Olive Way
Seattle, Wash. 98101

Stephen P. Daniel
GDS Associates, Inc.
1850 Parkway Place,
Suite 720
Marietta, Ga. 30067
(404) 425-8100

Alan Dashen
Seattle-Northwest Securities Corp.
1420 Fifth Ave., Suite 4300
Seattle, Wash. 98101

Joseph Davidek
Borough of Tarentum Water Department
304 Lock St.
Tarentum, Pa. 15084
(412) 224-1818

Michael G. Derrick
Siemens Energy & Automation, Inc.
2888 Woodcock Blvd.,
Suite 300
Atlanta, Ga. 30341
(404) 458-4353

Bill Dodson
Gulf Transformer Systems, Inc.
Box 1001
Holdrege, Neb. 68949
(318) 824-1938

Eugene Donovan
Orrick, Herrington & Sutcliffe
The Old Reserve Bank, 400 Sansome St.
San Francisco, Calif. 94111
(415) 773-5774

C. Brooke Dormire
Dewey, Ballantine
Room 2300, 1301 Avenue of the Americas
New York, N.Y. 10019

David V. Downes
Downes Associates, Inc.
2129 Northwood Drive
Salisbury, Md. 21801-7800
(301) 546-4422

James W. Duda
Siecor Corp.
489 Siecor Park
Hickory, N.C. 28603
(704) 327-5030

Kenneth W. Duvall
Southern Electric International, Inc.
100 Ashford Center N.,
Suite 400
Atlanta, Ga. 30338
(404) 261-4700

Warren N. Eckloff Jr.
Hanifen, Imhoff, Inc.
1125 17th St., Suite 1600,
Box 5050
Denver, Colo. 80217-5050
(303) 296-2300

James C. Ellafrits
Arthur Andersen & Co.
133 Peachtree St. N.E.,
Suite 2689
Atlanta, Ga. 30303

Luke Elliott
Photovision
Meadowcreek Project
Fox, Ark. 72051

Alexander Ellis III
Kenetech Corp.
15 New England Executive Park
Burlington, Mass. 01803
(617) 273-5894

Paul Fairbairn
Forum Secretariat
Box 856
Suva, Fiji
(679) 312-600

Stephen Finch
Dexsil Corp.
1 Hamden Park Drive
Hamden, Conn. 06517-3150

John E. Fisher
Lawson-Fisher Associates
525 W. Washington St.
South Bend, Ind. 46601

Barry R. Flynn
Flynn & Associates
7 Yanez Court
Redwood City, Calif. 94062
(415) 366-9611

Paul C. Friedland
First National Bank of Chicago
One 1st Nat'l. Plaza, Suite 0363
Chicago, Ill. 60670

Robert J. Genalo
Learning International
200 First Stamford Place, Box 10211
Stamford, Conn. 06904
(203) 965-8483

Lawrence R. Giglio
Graybar Electric Company, Inc.
Box 7231
Clayton, Mo. 63177
(314) 727-3900

Ralph J. Gillis
Gillis & Campbell
160 Old Derby St., Suite 227
Hingham, Mass. 02043
(617) 749-2432

Andrew C. Givens
Booth & Associates, Inc.
1011 Schaub Drive
Raleigh, N.C. 27606

Phillip M. Gonet
Illinois Commerce Commission
527 East Capitol Ave.
Springfield, Ill. 62706
(217) 785-7455

George Graham
Asplundh Tree Expert Company
Blair Mill Road
Willow Grove, Pa. 19090
(215) 784-4200

Kenneth E. Green
ICM Power Sales
4899 W. 2100 S.
Salt Lake City, Utah 84120
(801) 974-0388

Dick Griffith
Solomon Electric Supply, Inc.
Box 245
Solomon, Kan. 67480
(913) 655-2191

Peter H. Grills
O'Neill, Burke, O'Neill, Leonard & O'Brien, Ltd.
800 Norwest Center,
55 E. Fifth St.
St. Paul, Minn. 55101
(612) 227-9505

Gary D. Gustafson
Nebraska Power Review Board
Box 94713
Lincoln, Neb. 68509
(402) 471-2301

Richard Y. Guthrie
American National Bank & Trust Co.
33 N. La Salle St.

Chicago, Ill. 60690
(312) 661-5000

Russell L. Hamm
California City/County Street
Light Association
Box 5783
Santa Rosa, Calif. 95402
(707) 523-4819

Richard M. Harmon
CleanAir Transit
1221 Chapala St.
Santa Barbara, Calif. 93101
(805) 564-8986

Nigel Harris
Harris Computer Systems
16 Credit Union Way
Nepean, Ontario K2H 8R6
Canada
(613) 829-8888

Keith E. Herreman
Advanced Control Systems,
Inc.
Box 47824
Atlanta, Ga. 30362

R. Eugene Herritz
Virchow, Krause & Co.
Box 7398
Madison, Wis. 53707
(608) 249-6622

Joseph A. Herz
J.S. Sawvel & Associates
319 N. Blanchard, Box 1306
Findlay, Ohio 45839
(419) 422-4812

John Higley
Energy Management
Associates, Inc.
1000 Northcreek, Suite 500
Atlanta, Ga. 30327

Frederick W. Hill
Alex. Brown & Sons
One Piedmont Center,
Suite 400
Atlanta, Ga. 30305
(404) 266-5051

Lloyd J. Hill Jr.
SFT, Inc.
6629 W. Central Ave.
Toledo, Ohio 43617
(419) 843-8200

David R. Hittle
D. Hittle & Associates, Inc.
757 Columbia Dr. S.E.
Richland, Wash. 99352
(509) 627-4719

Earl R. Hoenes
Sheshunoff Information
Services, Inc.
505 Barton Springs Road
Austin, Texas 78704
(512) 472-2244

Kenneth A. Hoffman
Messer, Vickers, Caparello,
French, Madsen & Lewis, P.A.
Box 1876
Tallahassee, Fla. 32302
(904) 222-0720

Thomas B. Holley
Public Financial Management
201 S. Orange Ave., Suite 720
Orlando, Fla. 32801
(407) 648-2208

James A. Holtkamp
Davis, Graham & Stubbs
201 S. Main St, #1000
One Utah Center
Salt Lake City, Utah 84111
(801) 328-6000

Jeff Horn
Caterpillar, Inc. Engine
Division
Box 610
Mossville, Ill. 61552
(309) 578-3930

Ralph W. Howe III
Paterson & Walke, P.C.
Box 1310
Montpelier, Vt. 05601-1310
(802) 223-5271

Gary L. Hunt
DRI/McGraw-Hill
24 Hartwell Ave.
Lexington, Mass. 02173
(617) 860-6593

Donald J. Hutchison
Kohler Construction Co., Inc.
Box 11626
St. Petersburg, Fla. 33733
(813) 527-2077

Bill Jack
Industrial Bank of Japan, Ltd.
800 W. 6th St.
Los Angeles, Calif. 90017
(213) 628-7241

Robert M. Jackson
Haddon Jackson Associates
2010 Fairburn Ave.
Los Angeles, Calif. 90025
(213) 470-2419

David K. Johnson
Lawrence Livermore National
Laboratory
P.O. Box 808, L-604
Livermore, Calif. 94550
(415) 422-9517

Frederick M. Jones
R.W. Beck & Associates
6164 E. Oregon Pl.
Denver, Colo. 80224-2150
(303) 299-5266

John C. Jones
Powerhouse Diesel Services
5505 Broadway
American Canyon, Calif.
94589
(707) 257-8777

Wayne Joyce
Joyce, Gray & Associates,
Inc.
1143 Robin Hood Lane
Norman, Okla. 73072-7503

John D. Julien
H.J. Umbaugh & Associates
1500 Oak Road
Plymouth, Ind. 46563
(219) 935-5178

Robert Keegan
Bonneville Pacific
Corporation
257 E. 200 South, Suite 800
Salt Lake City, Utah 84111

Robert M. Keith Jr.
Management Resources
International
Box 201
Reading, Pa. 19603

Joseph J. Kelly
S.D. Myers, Inc. Transformer
Consultants
180 South Ave.
Tallmadge, Ohio 44278
(216) 633-2666

Peter J. Kenny
Willkie Farr & Gallagher
153 E. 53rd St., One Citicorp
New York, N.Y. 10022

Phyllis King
United States Trust Co.
of New York
114 W. 47th St.
New York, N.Y. 10036-1538

Tom Kirkwood
A.C. Kirkwood & Associates
8080 Ward Parkway,
Suite 200
Kansas City, Mo. 64114
(816) 333-4477

Peter C. Kissel Esq.
Baller, Hammett, Williams,
Grammer & Kissel, P.C.
1225 Eye St. N.W., Suite 1200
Washington, D.C. 20005
(202) 223-6111

Philip A. Kloster
City of Newton Water Dept.
P.O. Box 426
Newton, Kan. 67114-0426
(316) 283-6900

W. Craig Kuhl
Price Waterhouse
1 Boatmens Plaza
St. Louis, Mo. 63101

James Laulis
A Weatherization Company/
AWXCO
Box 277
Arvada, Colo. 80001-0277
(303) 421-7325

Merlin T. Lebakken
Power System Engineering,
Inc.
2000 Engel St., Suite 100
Madison, Wis. 53713
(608) 222-8400

William M. Lewis Jr.
W.M. Lewis & Associates, Inc.
Box 1383
Portsmouth, Ohio 45662
(614) 354-3238

Gary D. Lipson Esq.
Fine Jacobson Schwartz Nash
Block & England
One CenTrust Financial
Center, 100 S.E. 2nd St.
Miami, Fla. 33131
(305) 577-4115

David A. Little
David A. Little Recruiting
31224 Evans View Lane
Pine, Colo. 80470-9407
(303) 838-8842

George Little
HDR Engineering, Inc.
5401 Gamble Drive, 300
Parkdale One Building
Minneapolis, Minn.
55416-1518
(612) 544-7741

Stanley L. Livengood
Raymond James & Associates
1405 Northwest 13th St.
Gainesville, Fla. 32601
(904) 372-2517

Glenn Lovin
Meridian Corp.
4300 King St., Suite 400
Alexandria, Va. 22302-1508
(703) 998-3783

Ronald C. Lutwen
SFT, Inc.
6629 W. Central Ave.
Toledo, Ohio 43617
(419) 843-8200

John Lyddon
Green Technologies
205 Canyon Blvd.
Boulder, Colo. 80302
(303) 444-4111

George Mackie
Network Computing Corp.
5301 77 Center Drive
Charlotte, N.C. 28217
(704) 525-8810

Frank D. Mansfield
The Hartford Steam Boiler
Inspection & Insurance Co.
One State St.
Hartford, Conn. 06102
(203) 722-1866

Karl E. Marietta
Dahlen, Berg & Co.
1330 TCF Tower,
121 S. Eighth St.
Minneapolis, Minn. 55402
(612) 349-6868

Maria Markham Thompson
Chemical Bank Municipal
Credit Analysis
277 Park Ave., 15th Floor
New York, N.Y. 10172
(212) 310-5208

Charles N. Marsland
Power Line Models, Inc.
35 Main St.
Hopkinton, Mass. 01748
(617) 435-9377

Robert S. Mason Jr.
Bayboro Consulting Group,
Inc.
2951 34th St. South
St. Petersburg, Fla. 33711
(813) 866-9494

Alfred Matano
Law Office of Philip Chabot
1575 I St., N.W., Suite 300
Washington, D.C. 20005
(202) 289-8409

Anthony Mazy
6255 Atlantic Avenue, #14
Long Beach, Calif. 90805

Robert L. McCarty
Ritts, Brickfield & Kaufman
Watergate 600 Building
Washington, D.C. 20037

Larry K. McCracken
McCracken, Wilcox & Bertoux
601 University Ave., Suite 236
Sacramento, Calif. 95825
(916) 929-7723

Sally McNulty
Dun & Bradstreet Software
3445 Peachtree Rd. N.E.
Atlanta, Ga. 30326
(508) 370-5229

W. Lee McVey
Lawrence Livermore National
Laboratory
849 Cape May Place
San Jose, Calif. 95133

(415) 422-9538

Paul S. Messerschmidt
Energy Innovations Group
49 Hancock St.
Boston, Mass. 02114-4102
(617) 227-5462

Charles W. Meyers P.E.
Miner & Miner Consulting
Engineers
Box 548
Greeley, Colo. 80632-0548
(303) 352-3706

Leroy Michael Jr.
Electric Resource Strategy &
Contracts
4350 E. Camelback Road,
Suite 100-F, No. 22
Phoenix, Ariz. 85018
(602) 852-3622

Hermann Michaeli
Multi Amp Corp.
4271 Bronze Way
Dallas, Texas 75237

William E. Mickey
W.E. Mickey & Associates
1238 East 31st Court
Tulsa, Okla. 74105-2008

Richard R. Miller
Dain Bosworth, Inc.
100 Dain Tower, 4th Floor
Minneapolis, Minn. 55402
(612) 371-2711

Matthew B. Milstead
Lightwave Spectrum, Inc.
8200 Greensboro Drive,
Suite 303
McLean, Va. 22102
(703) 827-4030

Wallace D. Minor
T&D Associates, Inc.
P.O. Box 870
Haymarket, Va. 22069
(703) 335-9350

Robert P. Mitchell
Sherman & Howard
633 17th St. - 2900 Intrawest
Denver, Colo. 80202

Patrick J. Moast
Elizabethtown Gas Co.
One Elizabethtown Plaza
Elizabeth, N.J. 07207
(201) 272-1817

Maynard L. Moe
Dencor, Inc.
1450 W. Evans
Denver, Colo. 80223

Margaret Morgan
Coopers & Lybrand
2400 Eleven Penn Center
Philadelphia, Pa. 19103-2962

R. L. Morris
Ferranti International
Controls Corp.
Box 5012
Sugar Land, Texas 77487-
5012
(713) 274-5420

Bruce Morrison
Blue Collar Workman's Assn.
Box 253
Butler, N.J. 07405

Gordon Mortin
Lex Jolley, Inc.
1508 William Oliver
Atlanta, Ga. 30303

Carol Mulholland
ERCE
3211 Jermantown Road
Fairfax, Va. 22030
(703) 246-0566

John E. Muus
PaineWebber
1285 Ave. of the Americas
New York, N.Y. 10023
(212) 713-3318

Carl A. Mycoff
Mycoff & Associates, Inc.
13506 Ponderosa Drive
Conifer, Colo. 80433-5304

Steve Nau
Southern Maryland Electric
Route 231
Hughesville, Md. 20637

Grey L. Neely
Edward T. Davis & Associates
Box 369
Clarksdale, Miss. 38614

John O'Brien
O'Brien Partners, Inc.
Park Ave. Plaza, 55 E. 52nd
St., Suite 1100
New York, N.Y. 10055

Robert A. O'Neil Esq.
Miller, Balis & O'Neil, P.C.
1101 14th St. N.W.,
Suite 1400
Washington, D.C. 20005
(202) 789-1450

Odin Olsen
HDR Engineering Inc.
5401 Gamble Drive, Suite 300
Minneapolis, Minn.
55416-1518
(612) 544-7741

John E. Olsson
Olsson Associates
NBC Center, Suite 611
Lincoln, Neb. 68508

Ronald L. Ostop
URS Consultants, Inc.
1040 S. 8th St.
Colorado Springs, Colo.
80906
(719) 634-6699

William M. Paisley
Aggreko Inc.
P.O. Box 490
Bridgeport, N.J. 08014-0490
(609) 467-5656

Robert E. Palmquist
Associated Consultants
Engineers, Inc.
3131 Fernbrook Lane North
Minneapolis, Minn. 55447
(612) 558-5511

John E. Peltier
Paragon Electric Co., Inc.
606 Parkway Blvd., Box 28
Two Rivers, Wis. 54241
(414) 793-1161

Bill Penders
Bowne of New York City, Inc.
345 Hudson St.
New York, N.Y. 10014
(212) 924-5500

John W. Pestle
Varnum, Riddering, Schmidt
& Howlett
171 Monroe Ave., N.W.,
Suite 800
Grand Rapids, Mich. 49503
(616) 459-4186

Howard Peterson
Touche Ross & Co.
Box 3621, c/o BPA DRE/TR
Portland, Ore. 97208-3621

Joel W. Peterson
Canadian Imperial Bank of Commerce
200 W. Madison, Suite 2300
Chicago, Ill. 60606

Kathleen A. Pooler
Frank B. Hall & Co.
Box 193888
San Francisco, Calif.
94119-3888
(415) 543-9360

Joseph G. Potaczek
National Safety Council
444 N. Michigan Ave.
Chicago, Ill. 60611
(312) 527-4800

Jerry T. Powell
Stinson, Mag & Fizzell
P.O. Box 419251
Kansas City, Mo. 64141-6251
(816) 842-8600

Richard L. Preston
Scientific Atlanta, Inc.
4300 N.E. Expressway, Box
105038
Atlanta, Ga. 30348
(404) 449-2000

Donald B. Reid
Westpac Banking Corp.
225 W. Washington
Chicago, Ill. 60606
(312) 630-0170

Ronald L. Rencher
LeBoeuf, Lamb, Leiby &
MacRae
136 S. Main, Suite 1000
Salt Lake City, Utah 84103
(801) 355-6900

Marc T. Reston
Prager, McCarthy & Lewis
One Maritime Plaza,
Suite 1100
San Francisco, Calif. 94111
(415) 955-8151

Frank R. Richters
Combustion Engineering, Inc.
1000 Prospect Hill Road
Windsor, Conn. 06095

Lawrence J. Ringel
Synergistic Control Systems
5725 Bundy Road
New Orleans, La. 71027
(504) 244-9852

Frederick H. Ritts
Ritts, Brickfield & Kaufman
600 New Hampshire Ave.
N.W.
Washington, D.C. 20037
(202) 342-0800

Alan I. Robbins
Baller Hammet, P.C.
1225 Eye St. N.W., Suite 1200
Washington, D.C. 20005
(202) 682-3300

A. Francis Robinson Jr.
Brown & Wood
One World Trade Center
New York, N.Y. 10048
(212) 839-5323

Donald J. Robinson
Orrick, Herrington & Sutcliffe
599 Lexington Ave.
New York, N.Y. 10022

Joseph Rosenblum
Sanford C. Bernstein & Co.,
Inc.
767 Fifth Ave.
New York, N.Y. 10153
(212) 756-4130

Cheryl Ross
Prudential Insurance Co.
Financial Research Ctr.,
Gateway Three - 2nd Floor
Newark, N.J. 07102
(201) 349-5540

Janice J. Rowan
Radix Corp.
4855 Wiley Post Way
Salt Lake City, Utah 84116

David F. Russell
Camp Dresser & McKee Inc.
10 Cambridge Center
Cambridge, Mass. 02142
(617) 252-8000

Joseph Ryan Esq.
O'Melveny & Myers
400 S. Hope St.
Los Angeles, Calif. 90071
(213) 669-6000

Sanford J. Sacks
AMBAC Indemnity Corp.
1 State St. Plaza
New York, N.Y. 10004
(212) 668-0340

David L. Sahud
Assn. of Indust. Metallizers,
Coaters & Laminators
c/o Courtaulds United States,
400 Kelby St.
Fort Lee, N.J. 07024-2937
(201) 886-3180

Gary S. Saleba
Economic & Engineering
Services, Inc.
Box 1989
Bellevue, Wash. 98009
(206) 451-8015

Roger W. Sant
The AES Corp.
1001 N. 19th St.
Arlington, Va. 22209
(703) 522-1315

William C. Schutt
Discount Corp. of New York
Municipals
58 Pine St., 14th Floor
New York, N.Y. 10005
(212) 248-2468

Curt A. Schwalbe
O'Brien & Gere Engineers, Inc.
1304 Buckely Road
Syracuse, N.Y. 13221

Richard Scott Esq.
Chapman and Cutler
50 S. Main St., Suite 800
Salt Lake City, Utah 84144
(801) 533-0066

Jack Scriven
Teshmont Consultants, Inc.
7-1146 Waverley St.
Winnipeg, Manitoba R3T 0P4
Canada
(204) 284-8100

Robert L. Setzer
Robinson-Humphrey Co., Inc.
3333 Peachtree Road, N.E.
Atlanta, Ga. 30326
(404) 266-6038

Andrew J. Shea
McGrann, Shea, Franzen,
Carnival, Straughn & Lamb
1700 Lincoln Centre, 333 S.
Seventh St.
Minneapolis, Minn. 55402
(612) 338-2525

Judy Simms
Vision 21 Systems
900 Winderley Place
Maitland, Fla. 32751
(407) 660-0343

Richard P. Snaider
Ernst & Young
1225 Connecticut Ave., N.W.
Washington, D.C. 20036
(202) 862-6272

Howard Solganick
Cogeneration Partners of
America

Box 2910
Cherry Hill, N.J.
08034-0258
(609) 482-4856

Robert Spears
ICM Power
Systems
4899 W. 2100 S.
Salt Lake City, Utah
84120
(801) 974-0388

Alan Spen
Fitch Investors
Service, Inc.
One State St. Plaza,
33rd Floor
New York, N.Y.
10004
(212) 908-0500

Robert H. Staplin
Harza Engineering
Company
Sears Tower, 233
S. Wacker Drive
Chicago, Ill. 60606-
6392
(312) 831-3000

Kathy A. Staskal
Utility
Communicator's
Exchange
Box 337
Central City, Iowa 52214
(319) 438-6101

Shelley Stein
AMBAC Indemnity Corp.
1 State St. Plaza
New York, N.Y. 10004
(212) 668-0340

Edward W. Stenby
United Engineers &
Constructors
Western Operations,
Box 5888
Denver, Colo. 80217
(303) 843-2252

Peter K. Sternad
Bank of America
555 S. Flower St.
Los Angeles, Calif. 90071
(213) 228-4244

Howard Stewart
Mitsubishi Trust & Banking
Corporation
911 Wilshire Blvd., Suite 1650
Los Angeles, Calif. 90017
(213) 488-9003

Pamela Stewart
Cooperative Personnel
Services
191 Lathrop Way #A
Sacramento, Calif. 95815-4217
(916) 924-2300

E O
American Public Power Association
**Engineering & Operations
Workshop**

March 10-12, 1992
Convention Center
San Antonio, Texas

APPA

Patricia Stokes
Thomasson Lumber Co.
Box 490
Philadelphia, Miss. 39350
(601) 654-6600

Carl N. Stover
C.H. Guernsey & Co.
3555 N.W. 58th St.
Oklahoma City, Okla. 73112
(405) 947-5515

Harold J. Straka
Price Waterhouse
1801 K St. N.W.
Washington, D.C. 20006

S. T. Su
Tudor Engineering Co.
1800 Harrison St., Box 23210
Oakland, Calif. 94612
(415) 268-6124

Naoya Sugai
Tokyo Electric Power Co., Inc.
1901 L St. N.W.
Washington, D.C. 20036
(202) 457-0790

Pamala M. Sullivan
SFT, Inc.
6629 W. Central Ave.
Toledo, Ohio 43617
(419) 843-8200

Paul W. Swyers
Lawrence Livermore National Laboratory
P.O. Box 808, L-604
Livermore, Calif. 94550
(510) 422-9061

John S. Tamagni
Lazard Freres and Co.
One Rockefeller Plaza
New York, N.Y. 10020
(212) 489-6600

Carole Thomas
City of Rochester/Engineering
30 Church St., Room 300B
Rochester, N.Y. 14614
(716) 428-7515

David M. Thomas
Sverdrup Corp.
417 Montgomery St.,
4th Floor
San Francisco, Calif. 94104

R. G. Thomas
Thomas Engineering, Inc.
3420 Executive Center Drive,
Suite G-10
Austin, Texas 78731
(512) 346-1200

William R. Thomasset
Bibb and Associates, Inc.
6750 Antioch Road
Shawnee Mission, Kan.
66204-1260
(913) 236-7200

Glen Thor
Cooper Lighting
Box 824
Vicksburg, Miss. 39180

Robert D. Thorington Esq.
Thorington & Gregory
Box 1748
Montgomery, Ala. 36102-1748
(205) 834-6222

Chris J. Toogood
Mooney Chemicals, Inc.
2301 Scranton Road
Cleveland, Ohio 44113
(216) 781-8383

Daniel E. Toon
SFT, Inc.
8777 Purdue Road, Suite 330
Indianapolis, Ind. 46268
(317) 471-8200

Les Townsend
Townsend Consulting Group
1720 S. Bellaire St., #102,
Box 22898
Denver, Colo. 80222
(303) 758-9149

Catherine Trott
MBIA
113 King St.
Armonk, N.Y. 10504
(914) 273-4545

Joseph L. Turner
5300 Parkview Dr., #1078
Lake Osewego, Ore. 97035
(503) 928-5085

Peter G. Ungerman
Ungerman Engineering Inc.
Box 9183
Fort Collins, Colo. 80525
(303) 484-4181

James B. Vasile
Newman & Holtzinger, P.C.
1615 L St. N.W.
Washington, D.C. 20036
(202) 955-6600

Robert J. Vensas
Greiner, Inc.
909 E. Las Colinas Blvd., Suite
1900, LB 44
Irving, Texas 75039-3907
(214) 869-1001

L. E. Voss
Western Consulting, Inc.
2120 S. College Ave., Suite 10
Fort Collins, Colo. 80525-1465
(303) 484-4166

William C. Warburton
Advanced Energy Corp.
611 Broadway, Suite 630
New York, N.Y. 10012
(212) 505-7850

Jesse E. Watson
Texas A & M University - Texas Engineering Extension Service
Electric Power Utils. Trng.
College Station, Texas 77843-8000

Tom Watson
Crowell & Moring
1001 Pennsylvania Ave. N.W.
Washington, D.C. 20004-2505
(202) 452-5843

Alan R. Watts
Rourke & Woodruff
701 S. Parker St., Suite 7000
Orange, Calif. 92668
(714) 835-6212

James P. Weaver
National Westminster Bank PLC
175 Water St.
New York, N.Y. 10038
(212) 602-4303

Charles W. Weber
Box 661
Cathlamet, Wash. 98612
(206) 795-3926

Judson Werbelow
Dickinson, Wright, Moon, Van Dusen & Freeman
215 S. Washington Square,
Suite 200
Lansing, Mich. 48933
(517) 371-1730

S. Don Whitman
Benham-Holway Power Group
5314 S. Yale Ave.
Tulsa, Okla. 74135

Donald M. Whitney
Whitney Associates
233 Del Monte Road
Sebastian, Fla. 32958-4580
(315) 458-2059

Robert P. Will
Will & Muys, P.C.
1015 18th St. N.W., Suite 600
Washington, D.C. 20036
(202) 429-4344

Casey Williams
Kaset International
8875 Hidden River Parkway
Tampa, Fla. 33637
(813) 977-8875

Carol Williamson
Chase Manhattan Bank, N.A.
1 Chase Manhattan Plaza,
21st Floor
New York, N.Y. 10081
(212) 552-4178

J. L. Williamson
Kearney Division of Kearney National
Box 49167
Atlanta, Ga. 30329

Gregory L. Wilson
Twenty-First Century Management Consultants
6130 Lockton Lane,
Box 9373
Fairway, Kan. 66202
(913) 236-7856

Lorel E. Wisniewski
Workplace Economics, Inc.
Box 33367
Washington, D.C. 20033-0367
(202) 223-9191

Jack B. Wolfe
Boettcher & Co., Inc.
828 17th St., #303
Denver, Colo. 80202
(303) 628-8335

Hal Womble
Citizens Power & Light Corp.
Box 16326
Chattanooga, Tenn. 37416-0326

Albert E. Wright
Pacific Northwest Utilities Conference Committee
One Main Place, 101 SW
Main, Suite 810
Portland, Ore. 97204
(503) 223-9343

Strati Yorgiadis
Sheppard T. Powell Associates
1915 Aliceanna St.
Baltimore, Md. 21231
(301) 685-3210

Richard J. Zanard
Fairfield Financing Consultants
Box 516
Wilton, Conn. 06897
(203) 761-9121

1991 Public Power Author Index

Anderson, Jeannine
Fuel cells get high priority in Japan.
Mar/Apr, p. 57.
Milan installing fuel cell plant.
Mar/Apr, p. 57.
Muse or siren (molten carbonate fuel cell).
Mar/Apr, p. 54.
Safe thinking.
Jul/Aug, p.35.

Bentley, Alene E.
Energizing Education.
May/Jun, p. 46.

Berg, Dave
The challenge of asbestos removal.
Mar/Apr, p. 21.

Cafruny, Madalyn
It was another public powerful week.
Jan/Feb, p. 38.

Casini, Virgil J., Collins, James W. and Myers, John R.
Preventing lineworker fatalities.
Jul/Aug, p. 20.

Ciocci, Linda Church
Finance 102.
May/Jun, p.40.

Cochran, Jacquie
Innovations: BPA using biodegradable cleaners.
Jan/Feb, p. 45.
Innovations: New breaker technology used in Florida.
Jan/Feb, p. 44.
Innovations: PUD staff telecommute.
Jan/Feb, p. 45.
Innovations: Environmental scholarships awarded.
Mar/Apr, p.58.
Innovations: Key West employees are volunteer tutors.
Mar/Apr, p. 58.
Innovations: Marketing increases Dyersburg sales 47%.
Mar/Apr, p. 58.
Innovations: Lighting retrofit saves 56 percent.
May/Jun, p.50.
Innovations: Lighting retrofit educates students.
May/Jun, p.50.
Innovations: Meter data collection okay in Oklahoma.
May/Jun, p. 51.
Innovations: Mandatory demand-side management instituted for new housing.
Jul/Aug, p. 53.
Innovations: Meters display realtime data.
Jul/Aug, p. 52.
Innovations: PV powers xeriscaping.
Jul/Aug, p. 52.
Innovations: Incentives offered for efficient windows.
Sep/Oct, p. 56.
Innovations: New customer survey tool uses bar codes.
Sep/Oct, p. 56.
Innovations: Volunteer sidewalk superintendents recruited in Ohio.
Sep/Oct, p. 55.
Innovations: Device measures EMF.
Nov/Dec, p. 49.
Innovations: Imprisoned acorns grow mighty oaks.
Nov/Dec, p. 48.
Innovations: Zero consumption check program.
Nov/Dec, p. 49.

Cox, William
Transfer policies: When to say ENOUGH!
Sep/Oct, p. 50.

Evans, Felicity W.
Looking out for number one.
Sep/Oct, p. 26.

Guttman, Dan
The negawatt revolution.
Nov/Dec, p. 38.

Harris, Glenn D.
Eagle-eyed pilot.
Mar/Apr, p. 43.
Goggles allow safe night time helicopter operations.
Mar/Apr, p. 44.

Hausman, William and John L. Neufeld
Omega: Public vs. private: A century of debate over economic efficiency.
Sep/Oct, p. 59.

Hingorani, Narain G.
FACTS for electricity.
Mar/Apr, p. 50.

Hobart, Larry
Something to Think About: The numbers of public power.
Jan/Feb, p. 6.
Something to Think About: The future for photovoltaics.
Mar/Apr, p. 6.
Something to Think About: Local energy strategies.
May/Jun, p. 6.
Something to Think About: Project 2000: A plan for the 21st century.
Jul/Aug, p. 6.
Something to Think About: Transmission access answers.
Sep/Oct, p. 6.
Something to Think About: Ideas in print.
Nov/Dec, p. 6.

Hobart, Stacey
Chronicle: APPA's Performance Management Workshop to be held Nov. 13-15.
Nov/Dec, p. 8.
Chronicle: Building code summary published.
Nov/Dec, p. 10.
Chronicle: Lightning Detection Network expanding.
Nov/Dec, p.13.
Chronicle: Matching work schedules and sleep cycles may improve productivity, safety, satisfaction.
Nov/Dec, p. 12.
Chronicle: Most power line disturbances originate at the customer's home.
Nov/Dec, p. 9.
Chronicle: Nelson is new APPA president.
Nov/Dec, p. 8.
Chronicle: NIOSH to study lineworker deaths.
Nov/Dec, p. 12.
Chronicle: Peak growth may reach 100,000 MW.
Nov/Dec, p. 13.
Chronicle: Risk management center opens.
Nov/Dec, p. 10.
Chronicle: San Antonio is site for '92 E&O Workshop.
Nov/Dec, p. 10.
Chronicle: Solar design can save money on heating bills.
Nov/Dec, p. 11.
Chronicle: Students encouraged to pursue power degrees.
Nov/Dec, p. 10.
Chronicle: Upcoming utility education courses focus on public utility accounting.
Nov/Dec, p. 8.
Chronicle: Upgraded state building codes could save enough energy to serve 70,000 households.
Nov/Dec, p. 9.
Chronicle: Utilities characterize EMF issue as serious.
Nov/Dec, p. 8.
Chronicle: Window rating group formed.
Nov/Dec, p. 8.
Chronicle: Zebra mussel video available.
Nov/Dec, p. 11.
Seattle lab wins kudos.
Nov/Dec, p. 10.

Keat, Peter
Selling efficient kilowatt-hours.
Sep/Oct, p. 46.

LaBella, Jeanne Wickline
Automating Athens.
Mar/Apr, p. 14.
Randy Hardy: in charge.
Sep/Oct, p. 41.

Lawson, Richard L.
Omega: Coal and electric power: The present and future king.
Nov/Dec, p. 56.

Lebenthal, James A.
Omega: Bonds: Talk about 'em.
May/Jun, p. 56.

Long, Larry
Omega: The continuing census.
Jul/Aug, p. 60.

Moline, Barry J.
Managing demand.
Jul/Aug, p. 46.

Mrizek, Edward J.
Palo Alto goes underground.
May/Jun, p. 16.

Price, Jeffrey P.
Gas in 2000.
Sep/Oct, p. 12.

Radin, Alex and Deborah Sliz
Omega: Should regulation give way to the market. Mar/Apr, p. 64.

Ridley, Scott
Industry restructuring: Pandora's box.
May/Jun, p. 21.
Voluntary or mandatory transmission access.
May/Jun, p. 24.

Rogers, Beth
Conquering the sun.
Jul/Aug, p. 40.
Reaching out to minorities.
Sep/Oct, p. 20.
EPA's Lighting mission.
Nov/Dec, p. 23.
Leveling the peaks with thermal storage.
Nov/Dec, p. 45.
Manageable Energy Management.
Nov/Dec, p. 20.

Rowland, R.D.
Mass Savings.
May/Jun, p. 36.

Russell, Ronald E.
Who needs PUHCA?
May/Jun, p. 29.

Steinzor, Rena I. and David R. Straus
What will the new acid rain law mean to you?
Jan/Feb, p. 20.

Strickler, John
Michigan sweethearts.
Nov/Dec, p. 15.

Tuttle, Thomas C.
Strategic performance measurement.
Jul/Aug, p. 16.
Concepts of performance measurement.
Sep/Oct, p. 33.
Laying the foundation for performance measurement.
Nov/Dec, p. 34.

Wagner, Bill
Battling stress - for safety's sake.
Nov/Dec, p. 28.
Taking safety on the road.
Nov/Dec, p. 26.

Wallace, Mary Kate
Chronicle: 1991 APPA National Conference will be in Nashville's Opryland Hotel.
Jan/Feb, p. 12.
Chronicle: Apprenticeship program aimed at minorities.
Jan/Feb, p. 12.
Chronicle: Blow-drying my hair costs how much?
Jan/Feb, p.11.
Chronicle: Customers are focus of 1991 E&O workshop.
Jan/Feb, p. 11.
Chronicle: DOE sponsors clean coal programs in Richmond, Indiana and Springfield, Illinois.
Jan/Feb, p. 10.
Chronicle: EMF: It could be the hottest environmental issue in 1991.
Jan/Feb, p. 11.
Chronicle: Human resources meeting to be held in April.
Jan/Feb, p. 12.
Chronicle: Scottsdale is site of work force management workshop.
Jan/Feb, p. 10.
Chronicle: PREPA will build $15 million battery energy storage facility.
Jan/Feb, p. 10.
Chronicle: The CASE is not closed.
Jan/Feb, p. 12.
Chronicle: Annual conference to be held in Nashville, Tennessee.
Mar/Apr, p. 11.
Chronicle: Economic development is focus of UEC.
Mar/Apr, p.10.
Chronicle: JEA wins environmental award from city.
Mar/Apr, p. 10.
Chronicle: Seattle lights up to cut crime.
Mar/Apr, p. 11.
Chronicle: Today's light bulbs aren't what they used to be.
Mar/Apr, p. 10.
Chronicle: Zebra mussel imposter is on the loose.
Mar/Apr, p.10.
Chronicle: 55 utilities win safety awards.
May/Jun, p. 12.
Chronicle: Advanced lighting handbook available.
May/Jun, p.14.
Chronicle: APPA develops energy strategy response.
May/Jun,p. 13.
Chronicle: EPRI introduces EMF risk communications handbook.
May/Jun, p.15.
Chronicle: EPRI, others form wind consortium.
May/Jun, p. 13.
Chronicle: In Espanola, Ontario, sit back and watch your bills go down.
May/Jun, p. 15.
Chronicle: Now you see it, now you don't.
May/Jun, p. 12.
Chronicle: Phillips, Runyon will speak at National Conference at Nashville.
May/Jun, p. 14.
Chronicle: Public Power Week observance in its fifth year
May/Jun, p. 15.
Chronicle: Short supply threatens lighting programs.
May/Jun, p. 13.
Chronicle: Tree power: 16 million trees.
May/Jun, p. 13.
Chronicle: UECs: Retail rates, executive development.
May/Jun, p. 14.
Chronicle: APPA recognizes individuals, cities, with top honors.
Jul/Aug, p. 12.
Chronicle: California IOUs decide not to merge.
Jul/Aug, p.11.
Chronicle: A cool plan from Ontario Hydro.
Jul/Aug, p. 14.
Chronicle: Pierre, S.D., converts old power plant to science center.
Jul/Aug , p. 11.
Chronicle: Randall Hardy is new APPA president. Jul/Aug, p.10.
Chronicle: Senior executives, cable TV, are focus of upcoming UECs.
Jul/Aug, p. 10.
Chronicle: Solar bulletin available.
Jul/Aug, p. 14.
Chronicle: Westinghouse will open new transformer plant.
Jul/Aug, p. 10.
Chronicle: Will hydrogen be the new wonder fuel? Jul/Aug, p.10.
Chronicle: Back by popular demand: The switch, the bulb, the outlet.
Sep/Oct, p. 9.
Chronicle: Energy-efficiency upgrades in Pacific Northwest could save millions.
Sep/Oct, p. 10.
Chronicle: Glasgow, New York Power Authority and Pasadena win Innovator Awards.
Sep/Oct, p. 11.
Chronicle: Improving internal customer relations is AFRIS Workshop topic. Sep/Oct, p. 10.
Chronicle: Nuclear future rests with feds.
Sep/Oct, p. 10.
Chronicle: Territorial battle bites the dust.
Sep/Oct, p. 8.
Chronicle: UECs will highlight demand-side management, distribution, accounting.
Sep/Oct, p. 8.
Chronicle: Utility officials reveal concerns in survey.
Sep/Oct, p. 8.
Chronicle: Vic Reinemer, former Public Power editor, dies.
Sep/Oct, p. 8.

Watkins, T.H.
Monograph: Righteous Pilgrim, the life and time of Harold L. Ickes, 1874-1952.
May/Jun, p. 52.
(Book review)

Woolbright, Shane
Omega: Prosperity is just around the corner.
Jan/Feb, p. 48.

Yergin, Daniel
The prize, the epic quest for oil, money & power .
Mar/Apr, p. 60.
(Book review)

1991 Public Power Subject Index

ACCOUNTING
Hobart, Stacey. Chronicle: Upcoming Utility Education Courses focus on public utility accounting. Nov/Dec, p. 8.

ACCOUNTING, FINANCE, RATES & INFORMATION SYSTEMS SECTION/ WORKSHOP
Wallace, Mary Kate. Chronicle: Improving internal customer relations is AFRIS Workshop topic. Sep/Oct, p. 10.

ACID RAIN
Steinzor, Rena I. and David R. Straus. What will the new acid rain law mean to you?.
Jan/Feb, p. 20.
Radin, Alex and Deborah Sliz. Omega: Should regulation give way to the market.
Mar/Apr, p. 64.

ADVERTISING AND PUBLIC SERVICE ANNOUNCEMENTS
Wallace, Mary Kate. Chronicle: Back by popular demand: The switch, the bulb, the outlet.
Sep/Oct, p. 9.

AIR QUALITY
Wallace, Mary Kate. Chronicle: JEA wins environmental award from city. Mar/Apr, p. 10.

ALLIANCE TO SAVE ENERGY
Hobart, Stacey. Chronicle: Upgraded state building codes could save enough energy to serve 70,000 households.
Nov/Dec, p. 9.

AMERICAN ASSOCIATION OF NURSERYMEN
Wallace, Mary Kate. Chronicle: Tree power: 16 million trees.
May/Jun, p. 13.

ANNUAL CONFERENCE (APPA)
Wallace, Mary Kate. Chronicle: 1991 APPA National Conference will be in Nashville's Opryland Hotel.
Jan/Feb, p. 12.
Wallace, Mary Kate. Chronicle: Annual conference to be held in Nashville, Tennessee.
Mar/Apr, p. 11.
Wallace, Mary Kate. Chronicle: Phillips, Runyon will speak at National Conference at Nashville.
May/Jun, p. 14.

APPLIANCE METERS AND CONTROLS
Cochran, Jacquie. Mandatory demand-side management instituted for new housing.
Jul/Aug, p. 53.

ASBESTOS
Berg, Dave. The challenge of asbestos removal.
Mar/Apr, p. 21.

ATHENS UTILITIES BOARD (TENNESSEE)
LaBella, Jeanne Wickline. Automating Athens. Mar/Apr, p. 14.

AUDIOVISUALS
Hobart, Stacey. Chronicle: Zebra mussel video available. Nov/Dec , p. 11.

AUSTIN ELECTRIC UTILITY (TEXAS)
Rogers, Beth. Conquering the sun. Jul/Aug, p. 40.

AWARDS AND CONTESTS
Cochran, Jacquie. Innovations: Environmental scholarships awarded. Mar/Apr, p. 58.
Wallace, Mary Kate. Chronicle: JEA wins environmental award from city. Mar/Apr, p. 10.
Wallace, Mary Kate. Chronicle: 55 utilities win safety awards. May/Jun, p. 12.
Wallace, Mary Kate. Chronicle: APPA recognizes individuals, cities, with top honors. Jul/Aug, p. 12.
Wallace, Mary Kate. Chronicle: Glasgow, New York Power Authority and Pasadena win Innovator Awards. Sep/Oct, p. 11.
Hobart, Stacey. Seattle lab wins kudos. Nov/Dec, p.10.

AZIENDA ENERGETICA MUNICIPALE
Milan installing fuel cell plant. Mar/Apr, p. 57.

BATTERIES
Wallace, Mary Kate. Chronicle: PREPA will build $15 million battery energy storage facility. Jan/Feb, p. 10.

BENEFITS OF PUBLIC POWER
Hobart, Larry. Something to Think About: The numbers of public power. Jan/Feb, p. 6.
Public power costs less. Jan/Feb, p. 16.
Hobart, Larry. Something to Think About: Local energy strategies. May/Jun, p. 6.

BILLING
Cochran, Jacquie. Innovations: Zero consumption check program. Nov/Dec, p. 49.

BOARD OF DIRECTORS (APPA)
Wallace, Mary Kate. Chronicle: Randall Hardy is new APPA president. Jul/Aug, p. 10.
Hobart, Stacey. Chronicle: Nelson is new APPA president. Nov/Dec, p. 8.

BONNEVILLE POWER ADMINISTRATION
Cochran, Jacquie. BPA using biodegradable cleaners. Jan/Feb, p. 45.
Wallace, Mary Kate. Chronicle: Energy-efficiency upgrades in Pacific Northwest could save millions. Sep/Oct, p. 10.
Hobart, Stacey. Chronicle: Upgraded state building codes could save enough energy to serve 70,000 households. Nov/Dec, p. 9.

BOOK REVIEW
Yergin, Daniel. *The Prize, The Epic Quest For Oil, Money & Power.* Mar/Apr, p. 60.
Watkins, T.H. Monograph: *Righteous Pilgrim, The Life and Time of Harold L. Ickes,* 1874-1952. May/Jun, p. 52.
Haney, Mark and Jane Casler. *RCRA Handbook.* Nov/Dec, p. 53.
Hobart, Larry. Something to Think About: Ideas in print. Nov/Dec , p. 6.
Seevers, O.C.. *Power Systems Handbook: Design, Operation and Maintenance.* Nov/Dec, p. 52.

BOYLSTON MUNICIPAL LIGHTING DEPARTMENT (MASSACHUSETTS)
Cochran, Jacquie. Innovations: Lighting retrofit educates students. May/Jun, p. 50.

BRITISH COLUMBIA HYDRO
Wallace, Mary Kate. Chronicle: Today's light bulbs aren't what they used to be. Mar/Apr, p. 10.
Rogers, Beth. Manageable energy management. Nov/Dec, p. 20.

BUREAU OF THE CENSUS
Long, Larry. The continuing census. Jul/Aug, p. 60.

CABLE COMMUNICATIONS
Wallace, Mary Kate. Chronicle: Glasgow, New York Power Authority and Pasadena win Innovator Awards. Sep/Oct, p. 11.

CALIFORNIA ENERGY COMMISSION
Wallace, Mary Kate. Chronicle: Advanced lighting handbook available. May/Jun, p. 14.
Hobart, Stacey. Chronicle: Upgraded state building codes could save enough energy to serve 70,000 households. Nov/Dec, p. 9.

CHILDREN
Cochran, Jacquie. Innovations: Lighting retrofit educates students. May/Jun, p. 50.
Bentley, Alene E.. Energizing education. May/Jun, p. 46.

CIRCUIT BREAKERS
Cochran, Jacquie. Innovations: New breaker technology used in Florida. Jan/Feb, p. 44.

CITIZENS INVOLVEMENT
Cochran, Jacquie. Innovations: New customer survey tool uses bar codes. Sep/Oct, p. 56.
Cochran, Jacquie. Innovations: Volunteer sidewalk superintendents recruited in Ohio. Sep/Oct, p. 55.

CLEAN AIR ACT
Steinzor, Rena I. and David R. Straus. What will the new acid rain law mean to you? Jan/Feb, p. 20.

CLEAN COAL
Wallace, Mary Kate. Chronicle: DOE sponsors clean coal programs in Richmond, Indiana and Springfield, Illinois. Jan/Feb, p. 10.

CMS ENERGY CORP.
Strickler, John. Michigan sweethearts. Nov/Dec, p. 15.
Russell, Ronald E.. Who needs PUHCA? May/Jun, p. 29.

COAL
Lawson, Richard L. Omega: Coal and electric power: The present and future king. Nov/Dec, p. 56.

COMMERCIAL LIGHTING
Cochran, Jacquie. Innovations: Marketing increases Dyersburg sales 47%. Mar/Apr, p. 58.
Wallace, Mary Kate. Chronicle: Today's light bulbs aren't what they used to be. Mar/Apr, p. 10.
Cochran, Jacquie. Innovations: Lighting retrofit saves 56 percent. May/Jun, p. 50.
Cochran, Jacquie. Innovations: Lighting retrofit educates students. May/Jun, p. 50.
Wallace, Mary Kate. Chronicle: Advanced lighting handbook available. May/Jun, p. 14.
Wallace, Mary Kate. Chronicle: A cool plan from Ontario Hydro. Jul/Aug, p. 14.
Wallace, Mary Kate. Chronicle: Glasgow, New York Power Authority and Pasadena win Innovator Awards. Sep/Oct, p. 11.
EPA's Lighting mission. Nov/Dec, p. 23.
Rogers, Beth. Manageable energy management. Nov/Dec, p. 20.

COMMITTEES (APPA)
Wallace, Mary Kate. Chronicle: Apprenticeship program aimed at minorities. Jan/Feb, p. 12.

COMMUNICATION BASICS
Wallace, Mary Kate Chronicle: EPRI introduces EMF risk communications handbook. May/Jun, p. 15.

COMMUNITY SERVICE PROGRAMS
Cochran, Jacquie. Innovations: Key West employees are volunteer tutors. Mar/Apr, p. 58.

COMPETITION
Hausman, William and John L. Neufeld. Omega: Public vs. private: A century of debate over economic efficiency. Sep/Oct, p. 59.
Hobart, Larry. Something to Think About: Transmission access answers. Sep/Oct, p. 6.
Strickler, John. Michigan sweethearts. Nov/Dec, p. 15.

COMPUTER APPLICATIONS
Wallace, Mary Kate. Chronicle: The CASE is not closed. Jan/Feb, p. 12.
Cochran, Jacquie. Innovations: New customer survey tool uses bar codes. Sep/Oct, p. 56.
Hobart, Stacey. Chronicle: Lightning Detection Network expanding. Nov/Dec, p. 13.

CONSUMER RELATIONS PROGRAMS
Wallace, Mary Kate. Chronicle: Seattle lights up to cut crime. Mar/Apr, p. 11.
Cochran, Jacquie. Innovations: Volunteer sidewalk superintendents recruited in Ohio. Sep/Oct, p. 55.

CONSUMERS POWER COMPANY
Russell, Ronald E.. Who needs PUHCA? May/Jun, p. 29.
Strickler, John. Michigan sweethearts. Nov/Dec, p. 15.

COOL STORAGE
Rogers, Beth. Leveling the peaks with thermal storage. Nov/Dec, p. 45.

COUNCIL OF AMERICAN BUILDING OFFICIALS
Hobart, Stacey. Chronicle: Upgraded state building codes could save enough energy to serve 70,000 households. Nov/Dec, p. 9.

CREDIT AND COLLECTIONS
Cochran, Jacquie. Innovations: Zero consumption check program. Nov/Dec, p. 49.

CUSTOMER SERVICE
Evans, Felicity W. Looking out for number one. Sep/Oct, p. 26.

DAYLIGHTING
Rowland, R.D. Mass Savings. May/Jun, p. 36.

DEMAND-SIDE MANAGEMENT
Hobart, Larry. Something to Think About: Local energy strategies. May/Jun, p. 6.
Cochran, Jacquie. Mandatory demand-side management instituted for new housing. Jul/Aug, p. 53.
Moline, Barry J. Managing demand. Jul/Aug, p. 46.
Guttman, Dan. The Negawatt revolution. Nov/Dec, p. 38.
Rogers, Beth. Manageable energy management.

Nov/Dec, p. 20.

DEMOGRAPHICS
Long, Larry. The continuing census. Jul/Aug, p. 60.

DEPARTMENT OF COMMERCE
Wallace, Mary Kate. Chronicle: Solar bulletin available. Jul/Aug, p. 14.

DEPARTMENT OF ENERGY
Wallace, Mary Kate. Chronicle: DOE sponsors clean coal programs in Richmond, Indiana and Springfield, Illinois. Jan/Feb, p. 10.

DISPLAYS
Cochran, Jacquie. Innovations: PV powers xeriscaping. Jul/Aug, p. 52.
Wallace, Mary Kate. Chronicle: Pierre, S.D., converts old power plant to science center. Jul/Aug, p. 11.

DISTRIBUTION AUTOMATION
LaBella, Jeanne Wickline. Automating Athens. Mar/Apr, p. 14.

DYERSBURG ELECTRIC SYSTEM (TENNESSEE)
Cochran, Jacquie. Innovations: Marketing increases Dyersburg sales 47%. Mar/Apr, p. 58.

ELECTRIC MOTORS
Wallace, Mary Kate. Chronicle: A cool plan from Ontario Hydro. Jul/Aug, p. 14.

ELECTRIC POWER RESEARCH INSTITUTE
Hingorani, Narain G. FACTS for electricity. Mar/Apr, p. 50.
Wallace, Mary Kate. Chronicle: EPRI introduces EMF risk communications handbook. May/Jun, p. 15.
Wallace, Mary Kate. Chronicle: EPRI, others form wind consortium. May/Jun, p. 13.
Hobart, Stacey. Chronicle: Lightning Detection Network expanding. Nov/Dec, p. 13.

ELECTRIC POWER SUPPLY AND DEMAND
Hobart, Stacey. Chronicle: Peak growth may reach 100,000 MW. Nov/Dec, p. 13.

ELECTRIC THERMAL STORAGE (ETS)
Rogers, Beth. Leveling the peaks with thermal storage. Nov/Dec, p. 45.

ELECTRICAL EQUIPMENT
Cochran, Jacquie. Innovations: BPA using biodegradable cleaners. Jan/Feb, p. 45.
Wallace, Mary Kate. Chronicle: Westinghouse will open new transformer plant. Jul/Aug, p. 10.

EMERALD PEOPLE'S UTILITY DISTRICT (OREGON)
Rowland, R.D. Mass Savings. May/Jun, p. 36.
Evans, Felicity W. Looking out for number one. Sep/Oct, p. 26.

EMLOYEE PROGRAMS
Cochran, Jacquie. Innovations: PUD staff telecommute. Jan/Feb, p. 45.
Cochran, Jacquie. Innovations: Key West employees are volunteer tutors. Mar/Apr, p. 58.

EMPLOYMENT
Rogers, Beth. Reaching out to minorities. Sep/Oct, p. 20.

ENERGY CONSERVATION
Wallace, Mary Kate. Chronicle: Tree power: 16 million trees. May/Jun, p. 13.
Wallace, Mary Kate. Chronicle: Short supply threatens lighting programs. May/Jun, p. 13.
Hobart, Stacey. Seattle lab wins kudos. Nov/Dec, p. 10.

ENERGY CONSERVATION-ARCHITECTURE AND CONSTRUCTION
Rowland, R.D. Mass Savings. May/Jun, p. 36.
Wallace, Mary Kate. Chronicle: Energy-efficiency upgrades in Pacific Northwest could save millions. Sep/Oct, p. 10.
Hobart, Stacey. Chronicle: Solar design can save money on heating bills. Nov/Dec, p. 11.
Hobart, Stacey. Chronicle: Upgraded state building codes could save enough energy to serve 70,000 households. Nov/Dec, p. 9.

ENERGY CONSERVATION COMMERCIAL AND INDUSTRIAL
Cochran, Jacquie. Innovations: Lighting retrofit saves 56 percent. May/Jun, p. 50.
Cochran, Jacquie. Innovations: Lighting retrofit educates students. May/Jun, p. 50.
Wallace, Mary Kate. A cool plan from Ontario Hydro. Jul/Aug, p. 14.
Keat, Peter. Selling efficient Kilowatt-hours. Sep/Oct, p. 46.
EPA's Lighting mission. Nov/Dec, p. 23.
Hobart, Stacey. Chronicle: Window rating group formed. Nov/Dec, p. 8.
Rogers, Beth. Manageable energy management. Nov/Dec, p. 20.

ENERGY CONSERVATION-FINANCIAL INCENTIVES
Wallace, Mary Kate. Chronicle: Today's light bulbs aren't what they used to be. Mar/Apr, p. 10.
Moline, Barry J. Managing demand. Jul/Aug, p. 46.
Wallace, Mary Kate. Chronicle: A cool plan from Ontario Hydro. Jul/Aug, p. 14.
Cochran, Jacquie. Innovations: Incentives offered for efficient windows. Sep/Oct, p. 56.
Rogers, Beth. Manageable energy management. Nov/Dec, p. 20.

ENERGY CONSERVATION-LOAN PROGRAMS
Keat, Peter. Selling efficient kilowatt-hours. Sep/Oct, p. 46.

**Can't cost-justify an AM / FM system?
Want to move up from your CAD system?
Maintenance costs of your present AM / FM system out of control?**

CableCad
Field-proven AM/FM for Electric Utilities

What do other AM / FM Systems have that CableCad doesn't?...

A high price tag!

☐ Full Featured
☐ High Performance
☐ Corporate Compatibility
☐ Standard Hardware
☐ Multi-user Access

☐ Distribution Analysis
☐ Cable Count Rippling
☐ Work Order Management
☐ Report Generation
☐ Applications Interfaces

Enghouse Systems Limited
20 Valleywood Dr., Suite 100
Markham, Ontario L3R 6G1
(416) 477-1212 Fax: 477-1466

ENG

Enghouse Systems USA, Inc.
8451 Dunwoody Place
Atlanta, GA 30350
(404) 640-0055 Fax: 642-0015

CableCad is a trademark of Enghouse Systems Limited.
IBM is a trademark of International Business Machines.

IBM Business Partner

ENERGY CONSERVATION-RESIDENTIAL
Wallace, Mary Kate. Chronicle: Blow-drying my hair costs how much? Jan/Feb, p. 11.
Wallace, Mary Kate. Chronicle: In Espanola, Ontario, sit back and watch your bills go down. May/Jun, p. 15.
Cochran, Jacquie. Innovations: Meters display real-time data. Jul/Aug, p. 52.
Cochran, Jacquie. Innovations: Incentives offered for efficient windows. Sep/Oct, p. 56.
Keat, Peter. Selling efficient kilowatt-hours. Sep/Oct, p. 46.
Wallace, Mary Kate. Chronicle: Energy-efficiency upgrades in Pacific Northwest could save millions. Sep/Oct, p. 10.
Wallace, Mary Kate. Chronicle: Glasgow, New York Power Authority and Pasadena win Innovator Awards. Sep/Oct, p. 11.
Hobart, Stacey. Chronicle: Solar design can save money on heating bills. Nov/Dec, p. 11.
Hobart, Stacey. Chronicle: Upgraded state building codes could save enough energy to serve 70,000 households. Nov/Dec, p. 9.
Hobart, Stacey. Chronicle: Window rating group formed. Nov/Dec, p. 8.
Rogers, Beth. Manageable energy management. Nov/Dec, p. 20.

ENERGY CONSERVATION-STANDARDS AND CODES
Hobart, Stacey. Chronicle: Building code summary published. Nov/Dec, p. 10.
Hobart, Stacey. Chronicle: Upgraded state building codes could save enough energy to serve 70,000 households. Nov/Dec, p. 9.

ENERGY EDUCATION
Cochran, Jacquie. Innovations: Lighting retrofit educates students. May/Jun, p. 50.
Bentley, Alene E. Energizing education. May/Jun, p. 46.
Wallace, Mary Kate. Chronicle: Pierre, S.D., converts old power plant to science center. Jul/Aug, p. 11.
Hobart, Stacey. Chronicle: Students encouraged to pursue power degrees. Nov/Dec, p. 10.

ENERGY EFFICIENT HOME PROGRAMS
Wallace, Mary Kate. Chronicle: In Espanola, Ontario, sit back and watch your bills go down. May/Jun, p. 15.
Wallace, Mary Kate. Chronicle: Energy-efficiency upgrades in Pacific Northwest could save millions. Sep/Oct, p. 10.

ENERGY INNOVATOR AWARD (APPA)
Wallace, Mary Kate. Chronicle: Glasgow, New York Power Authority and Pasadena win Innovator Awards. Sep/Oct, p. 11.

ENERGY POLICY
Wallace, Mary Kate. Chronicle: APPA develops energy strategy response. May/Jun, p. 13.

ENERGY STORAGE
Wallace, Mary Kate. Chronicle: PREPA will build $15 million battery energy storage facility. Jan/Feb, p. 10.

ENERGY SUPPLY AND DEMAND
Price, Jeffrey P. Gas in 2000. Sep/Oct, p. 12.

ENGINEERING AND OPERATIONS SECTION/ WORKSHOP
Wallace, Mary Kate. Chronicle: Customers are focus of 1991 E&O workshop. Jan/Feb, p. 11.
Hobart, Stacey. Chronicle: San Antonio is site for '92 E&O Workshop. Nov/Dec, p. 10.

ENVIRONMENT
Cochran, Jacquie. BPA using biodegradable cleaners. Jan/Feb, p. 45.
Cochran, Jacquie. Innovations: Environmental scholarships awarded. Mar/Apr, p. 58.
Wallace, Mary Kate. Chronicle: JEA wins environmental award from city. Mar/Apr, p. 10.
Wallace, Mary Kate. Chronicle: Tree power: 16 million trees. May/Jun, p. 13.
Hobart, Larry. Something to Think About: Ideas in print. Nov/Dec , p. 6.
Hobart, Stacey. Chronicle: Risk management center opens. Nov/Dec, p. 10.

ENVIRONMENTAL PROTECTION AGENCY
EPA's Lighting mission. Nov/Dec, p. 23.

EQUAL EMPLOYMENT OPPORTUNITY
Wallace, Mary Kate. Chronicle: Apprenticeship program aimed at minorities. Jan/Feb, p. 12.
Rogers, Beth. Reaching out to minorities. Sep/Oct, p. 20.

EUGENE WATER AND ELECTRIC BOARD (OREGON)
Cochran, Jacquie. Innovations: New customer survey tool uses bar codes. Sep/Oct, p. 56.

EXHIBITS
Cochran, Jacquie. Innovations: PV powers xeriscaping. Jul/Aug, p. 52.
Wallace, Mary Kate. Pierre, S.D., converts old power plant to science center. Jul/Aug, p. 11.

FEDERAL ENERGY REGULATORY COMMISSION
Ridley, Scott. Industry restructuring: Pandora's box. May/Jun, p. 21.
Voluntary or mandatory transmission access. May/Jun, p. 24.

FEDERMAN, MILES
Wallace, Mary Kate. Chronicle: Nuclear future rests with feds. Sep/Oct, p. 10.

FINANCE
Ciocci, Linda Church. Finance 102. May/Jun, p. 40.
Lebenthal, James A. Omega: Bonds: Talk about 'em. May/Jun, p. 56.
Cox, William. Transfer policies: When to say ENOUGH! Sep/Oct, p. 50.

FISH MANAGEMENT
Wallace, Mary Kate. Chronicle: Zebra mussel imposter is on the loose. Mar/Apr, p. 10.
Hobart, Stacey. Chronicle: Zebra mussel video available. Nov/Dec , p. 11.

FLUE-GAS DESULFURIZATION
Wallace, Mary Kate. Chronicle: DOE sponsors clean coal programs in Richmond, Indiana and Springfield, Illinois. Jan/Feb, p. 10.

FLUIDIZED-BED COMBUSTION
Wallace, Mary Kate. Chronicle: DOE sponsors clean coal programs in Richmond, Indiana and Springfield, Illinois. Jan/Feb, p. 10.

FUEL CELLS
Anderson, Jeannine. Muse or siren (molten carbonate fuel cell). Mar/Apr, p. 54.
Fuel cells get high priority in Japan. Mar/Apr, p. 57.
Milan installing fuel cell plant. Mar/Apr, p. 57.

FUELS
Wallace, Mary Kate. Chronicle: Will hydrogen be the new wonder fuel? Jul/Aug, p. 10.

GLASGOW ELECTRIC PLANT BOARD (KENTUCKY)
Wallace, Mary Kate. Chronicle: Glasgow, New York Power Authority and Pasadena win Innovator Awards. Sep/Oct, p. 11.

GRAND RIVER DAM AUTHORITY (OKLAHOMA)
Cochran, Jacquie. Innovations: Meter data collection okay in Oklahoma. May/Jun, p. 51.

HARDY, RANDALL
Wallace, Mary Kate. Chronicle: Randall Hardy is new APPA president. Jul/Aug, p. 10.
LaBella, Jeanne Wickline. Randy Hardy: In charge. Sep/Oct, p. 41.
Hobart, Stacey. Chronicle: Nelson is new APPA president. Nov/Dec , p. 8.

HARVARD MEDICAL SCHOOL
Hobart, Stacey. Chronicle: Matching work schedules and sleep cycles may improve productivity, safety, satisfaction. Nov/Dec, p. 12.

HAZARDOUS MATERIALS
Cochran, Jacquie. Innovations:BPA using biodegradable cleaners. Jan/Feb, p. 45.
Berg, Dave. The challenge of asbestos removal. Mar/Apr, p. 21.

HEALTH CARE
Battling stress - for safety's sake. Nov/Dec, p. 28.
Hobart, Stacey. Chronicle: Risk management center opens. Nov/Dec, p. 10.

HEAT PUMPS
Cochran, Jacquie. Innovations: Marketing increases Dyersburg sales 47%. Mar/Apr, p. 58.

HUMAN RESOURCES COMMITTEE/MEETING (APPA)
Wallace, Mary Kate. Chronicle: Human resources meeting to be held in April. Jan/Feb, p. 12.

HYDROELECTRIC POWER PROJECTS
Harris, Glenn D. Goggles allow safe night time helicopter operations. Mar/Apr, p. 44.

HYDROGEN
Wallace, Mary Kate. Chronicle: Will hydrogen be the new wonder fuel? Jul/Aug, p. 10.

INDEPENDENT POWER PRODUCERS
Russell, Ronald E. Who needs PUHCA? May/Jun, p. 29.
Ridley, Scott. Industry restructuring: Pandora's box. May/Jun, p. 21.
Voluntary or mandatory transmission access. May/Jun, p. 24.

INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS POWER ENGINEERING SOCIETY
Hobart, Stacey. Chronicle: Students encouraged to pursue power degrees. Nov/Dec, p. 10.

INTERCONNECTION
Hingorani, Narain G. FACTS for electricity. Mar/Apr, p. 50.

INVESTOR-OWNED UTILITIES
Woolbright, Shane. Omega: Prosperity is just around the

corner. Jan/Feb, p. 48.
Hausman, William and John L. Neufeld. Omega: Public vs. private: A century of debate over economic efficiency. Sep/Oct, p. 59.

JACKSONVILLE ELECTRIC AUTHORITY (FLORIDA)
Wallace, Mary Kate. Chronicle: Apprenticeship program aimed at minorities. Jan/Feb, p. 12.
Wallace, Mary Kate. Chronicle: JEA wins environmental award from city. Mar/Apr, p. 10.
Cochran, Jacquie. Innovations: Imprisoned acorns grow mighty oaks. Nov/Dec, p. 48.

JAPAN
Fuel cells get high priority in Japan. Mar/Apr, p. 57.

JOINT ACTION
Woolbright, Shane. Omega: Prosperity is just around the corner. Jan/Feb, p. 48.

KEY WEST ELECTRIC SYSTEM (FLORIDA)
Cochran, Jacquie. Innovations: Key West employees are volunteer tutors. Mar/Apr, p. 58.
Cochran, Jacquie. Innovations: Zero consumption check program. Nov/Dec, p. 49.

LAKE WORTH (FLORIDA)
Cochran, Jacquie. Innovations: PV powers xeriscaping. Jul/Aug, p. 52.

LAKELAND ELECTRIC AND WATER DEPARTMENT (FLORIDA)
Cochran, Jacquie. Mandatory demand-side management instituted for new housing. Jul/Aug, p. 53.

LEE COUNTY ELECTRIC COOPERATIVE (FLORIDA)
Cochran, Jacquie. Innovations: New breaker technology used in Florida. Jan/Feb, p. 44.

LEGISLATION - FEDERAL
Wallace, Mary Kate. Chronicle: EMF: It could be the hottest environmental issue in 1991. Jan/Feb, p. 11.
Ciocci, Linda Church. Finance 102. May/Jun, p. 40.

LIGHTING TECHNOLOGIES
Wallace, Mary Kate. Chronicle: Today's light bulbs aren't what they used to be. Mar/Apr, p. 10.
Rowland, R.D. Mass Savings. May/Jun, p. 36.
Wallace, Mary Kate. Chronicle: Short supply threatens lighting programs. May/Jun, p. 13.
Wallace, Mary Kate. Chronicle: Advanced lighting handbook available. May/Jun, p. 14.
Hobart, Stacey. Seattle lab wins kudos. Nov/Dec, p. 10.

Rogers, Beth. Manageable energy management. Nov/Dec, p. 20.

LIGHTNING
Hobart, Stacey. Chronicle: Lightning Detection Network expanding Nov/Dec, p. 13.

LOAD MANAGEMENT
LaBella, Jeanne Wickline. Automating Athens. Mar/Apr, p. 14.
Moline, Barry J. Managing demand. Jul/Aug, p. 46.
Rogers, Beth. Leveling the peaks with thermal storage. Nov/Dec, p. 45.

LOAD MANAGEMENT - RESIDENTIAL
Cochran, Jacquie. Mandatory demand-side management instituted for new housing. Jul/Aug, p. 53.

MANUFACTURED HOUSING
Wallace, Mary Kate. Chronicle: Energy-efficiency upgrades in Pacific Northwest could save millions. Sep/Oct, p. 10.
Hobart, Stacey. Chronicle: Upgraded state building codes could save enough energy to serve 70,000 households. Nov/Dec, p. 9.

MARKETING BY UTILITIES
Cochran, Jacquie. Innovations: Marketing increases Dyersburg sales 47%. Mar/Apr, p. 58.

MARSHALL MUNICIPAL UTILITIES (MINNESOTA)
Wallace, Mary Kate. Chronicle: Territorial battle bites the dust. Sep/Oct, p. 8.

MASSACHUSETTS MUNICIPAL WHOLESALE ELECTRIC COMPANY
Cochran, Jacquie. Innovations: Lighting retrofit saves 56 percent. May/Jun, p. 50.

MEETINGS (APPA)
Hobart, Stacey. Chronicle: APPA's Performance Management Workshop to be held Nov. 13-15. Nov/Dec, p. 8.

MERGERS
Ridley, Scott. Industry restructuring: Pandora's box. May/Jun, p. 21.
Wallace, Mary Kate. Chronicle: California IOUs decide not to merge. Jul/Aug, p. 11.

METER READING
LaBella, Jeanne Wickline. Automating Athens. Mar/Apr, p. 14.
Cochran, Jacquie. Innovations: Meter data collection okay in Oklahoma. May/Jun, p. 51.
Cochran, Jacquie. Innovations: Zero consumption check program. Nov/Dec, p. 49.

METERS
Cochran, Jacquie. Innovations: Meters display real-time data. Jul/Aug, p. 52.
Cochran, Jacquie. Innovations: Device measures EMF. Nov/Dec, p. 49.

MICHIGAN MUNICIPAL COOPERATIVE GROUP
Strickler, John. Michigan sweethearts. Nov/Dec, p. 15.

MIDLAND COGENERATION VENTURE
Russell, Ronald E. Who needs PUHCA? May/Jun, p. 29.
Strickler, John. Michigan sweethearts. Nov/Dec, p. 15.

MINNESOTA MUNICIPAL UTILITIES ASSOCIATION
Wagner, Bill. Taking safety on the road. Nov/Dec, p. 26.

MUNICIPAL BONDS
Ciocci, Linda Church. Finance 102. May/Jun, p. 40.
Lebenthal, James A. Omega: Bonds: Talk about 'em. May/Jun, p. 56.

MUNICIPAL ELECTRIC SYSTEMS OF OKLAHOMA
Woolbright, Shane. Omega: Prosperity is just around the corner. Jan/Feb, p. 48.

MURRAY CITY POWER (UTAH)
Bentley, Alene E.. Energizing education. May/Jun, p. 46.

NATIONAL GEOPHYSICAL DATA CENTER
Wallace, Mary Kate. Chronicle: Solar bulletin available. Jul/Aug, p. 14.

NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH (NIOSH)
Casini, Virgil J., Collins, James W. and Myers, John R. Preventing lineworker fatalities. Jul/Aug, p. 20.
Hobart, Stacey. Chronicle: NIOSH to study lineworker deaths. Nov/Dec, p. 12.

NATURAL GAS
Price, Jeffrey P. Gas in 2000. Sep/Oct, p. 12.

NELSON, ROBERT E.
Hobart, Stacey. Chronicle: Nelson is new APPA president. Nov/Dec , p. 8.

NEW YORK POWER AUTHORITY
Wallace, Mary Kate. Chronicle: Today's light bulbs aren't what they used to be. Mar/Apr, p. 10.
Wallace, Mary Kate. Chronicle: Glasgow, New York Power Authority and Pasadena win Innovator Awards. Sep/Oct, p. 11.

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL (NERC)
Hobart, Stacey. Chronicle: Peak growth may reach 100,000 MW. Nov/Dec, p. 13.

NORTH ATTLEBORO ELECTRIC DEPARTMENT (MASSACHUSETTS)
Rogers, Beth. Leveling the peaks with thermal storage. Nov/Dec, p. 45.

NORTHEAST UTILITIES
Wallace, Mary Kate. Chronicle: Short supply threatens lighting programs. May/Jun, p. 13.

NUCLEAR ENERGY
Wallace, Mary Kate. Chronicle: Nuclear future rests with feds. Sep/Oct, p. 10.

OAK RIDGE NATIONAL LABORATORY
Hobart, Stacey. Chronicle: Risk management center opens. Nov/Dec, p. 10.

ONTARIO HYDRO
Wallace, Mary Kate. Chronicle: In Espanola, Ontario, sit back and watch your bills go down. May/Jun, p. 15.
Wallace, Mary Kate. Chronicle: A cool plan from Ontario Hydro. Jul/Aug, p. 14.
Cochran, Jacquie. Innovations: Incentives offered for efficient windows. Sep/Oct, p. 56.

PACIFIC NORTHWEST LABORATORY
Wallace, Mary Kate. Chronicle: Energy-efficiency upgrades in Pacific Northwest could save millions. Sep/Oct, p. 10.

PALISADES GENERATING COMPANY
Strickler, John. Michigan sweethearts. Nov/Dec, p. 15.

PALLONE, FRANK REPRESENTATIVE
Wallace, Mary Kate. Chronicle: EMF: It could be the hottest environmental issue in 1991. Jan/Feb, p. 11.

PALO ALTO (CALIFORNIA)
Mrizek, Edward J. Palo Alto goes underground. May/Jun, p. 16.

PASADENA WATER AND POWER DEPARTMENT (CALIFORNIA)
Wallace, Mary Kate. Chronicle: Glasgow, New York Power Authority and Pasadena win Innovator Awards. Sep/Oct, p. 11.

PERFORMANCE MEASUREMENT (GENERAL)
Selected financial and operating ratios of public power systems.

Jan/Feb, p. 26.
Tuttle, Thomas C. Strategic performance measurement. Jul/Aug, p. 16.
Tuttle, Thomas C. Concepts of performance measurement. Sep/Oct, p. 33.
Tuttle, Thomas C. Laying the foundation for performance measurement. Nov/Dec, p. 34.

PHOTOVOLTAICS
Hobart, Larry. Something to Think About: The future for photovoltaics. Mar/Apr, p. 6.
Cochran, Jacquie. Innovations: PV powers xeriscaping. Jul/Aug, p. 52.
Rogers, Beth. Conquering the sun. Jul/Aug, p. 40.

PIERRE PUBLIC WORKS DEPARTMENT (SOUTH DAKOTA)
Wallace, Mary Kate. Chronicle: Pierre, S.D., converts old power plant to science center. Jul/Aug, p. 11.

POWER ENGINEERING EDUCATION FOUNDATION
Hobart, Stacey. Chronicle: Students encouraged to pursue power degrees. Nov/Dec, p. 10.

POWER PLANTS
Wallace, Mary Kate. Chronicle: Pierre, S.D., converts old power plant to science center. Jul/Aug, p. 11.

POWER PLANTS - MAINTENANCE AND MONITORING SYSTEMS
Harris, Glenn D. Goggles allow safe night time helicopter operations. Mar/Apr, p. 44.

POWER QUALITY
Hobart, Stacey. Chronicle: Most power line disturbances originate at the customer's home. Nov/Dec, p. 9.

POWER SMART INC. (PSI)
Rogers, Beth. Manageable energy management. Nov/Dec, p. 20.

POWER SUPPLY - PLANNING
Cochran, Jacquie. Innovations: New customer survey tool uses bar codes. Sep/Oct, p. 56.
Keat, Peter. Selling efficient kilowatt-hours. Sep/Oct, p. 46.

PROMOTIONAL CAMPAIGNS - PUBLIC POWER
Cafruny, Madalyn. It was another public powerful week. Jan/Feb, p. 38.
Wallace, Mary Kate. Chronicle: Public Power Week observance in its fifth year. May/Jun, p. 15.
Wallace, Mary Kate. Chronicle: Back by popular demand: The switch, the bulb, the outlet. Sep/Oct, p. 9.

PUBLIC POWER
Hobart, Larry. Something to Think About: Project 2000: A plan for the 21st century. Jul/Aug, p. 6.
Hausman, William and John L. Neufeld. Omega: Public vs. private: A century of debate over economic efficiency. Sep/Oct, p. 59.

PUBLIC UTILITY HOLDING COMPANY ACT (PUHCA)
Russell, Ronald E. Who needs PUHCA? May/Jun, p. 29.
Ridley, Scott. Industry restructuring: Pandora's box. May/Jun, p. 21.
Strickler, John. Michigan sweethearts. Nov/Dec, p. 15.

PUBLICATIONS
1991 APPA publications catalog. Mar/Apr. Wallace, Mary Kate. Chronicle: EPRI introduces EMF risk communications handbook. May/Jun, p. 15.
Wallace, Mary Kate. Chronicle: Advanced lighting handbook available. May/Jun, p. 14.
Wallace, Mary Kate. Chronicle: Solar bulletin available. Jul/Aug, p. 14.

PUBLICLY OWNED UTILITIES
Hobart, Larry. Something to Think About: The numbers of public power. Jan/Feb, p. 6.
Hobart, Larry. Something to Think About: Local energy strategies . May/Jun, p. 6.
Hausman, William and John L. Neufeld. Omega: Public vs. private: A century of debate over economic efficiency. Sep/Oct, p. 59.

PUBLICLY OWNED UTILITIES - TAXES, TRANSFERS AND CONTRIBUTED SERVICES
Contributions to local government. Jan/Feb, p. 32.
Cox, William. Transfer policies: When to say ENOUGH! Sep/Oct, p. 50.

PUERTO RICO ELECTRIC POWER AUTHORITY
Wallace, Mary Kate. Chronicle: PREPA will build $15 million battery energy storage facility. Jan/Feb, p. 10.

RATES - RETAIL
Public power costs less. Jan/Feb, p. 16.

RATES - WHOLESALE
Woolbright, Shane. Omega: Prosperity is just around the corner. Jan/Feb, p. 48.
Strickler, John. Michigan sweethearts. Nov/Dec, p. 15.

REGULATION (FEDERAL)
Radin, Alex and Deborah Sliz. Omega: Should regulation give way to the market. Mar/Apr, p. 64.

REGULATION (STATE)
Russell, Ronald E. Who needs PUHCA? May/Jun, p. 29.
Wallace, Mary Kate. California IOUs decide not to merge. Jul/Aug, p. 11.
Guttman, Dan. The Negawatt revolution. Nov/Dec, p. 38.

REINEMER, VIC
Wallace, Mary Kate. Chronicle: Vic Reinemer, former Public Power editor, dies. Sep/Oct, p. 8.

RENEWABLE RESOURCES
Wallace, Mary Kate. Chronicle: EPRI, others form wind consortium. May/Jun, p. 13.
Rogers, Beth. Conquering the sun. Jul/Aug, p. 40.
Wallace, Mary Kate. Chronicle: Will hydrogen be the new wonder fuel? Jul/Aug, p. 10.
Hobart, Stacey. Chronicle: Solar design can save money on heating bills. Nov/Dec, p. 11.

RESOLUTIONS (APPA)
Wallace, Mary Kate. Chronicle: APPA develops energy strategy response. May/Jun, p. 13.

SACRAMENTO MUNICIPAL UTILITY DISTRICT (CALIFORNIA)
Rogers, Beth. Conquering the sun. Jul/Aug, p. 40.
Keat, Peter. Selling efficient kilowatt-hours. Sep/Oct, p. 46.
Rogers, Beth. Leveling the peaks with thermal storage. Nov/Dec, p. 45.

SAFETY - EMPLOYEE
Wallace, Mary Kate. Chronicle: 55 utilities win safety awards. May/Jun, p. 12.
Anderson, Jeannine. Safe thinking. Jul/Aug, p. 35.
Casini, Virgil J., Collins, James W. and Myers, John R.. Preventing lineworker fatalities. Jul/Aug, p. 20.
Battling stress - for safety's sake. Nov/Dec, p. 28.
Hobart, Stacey. Chronicle: Matching work schedules and sleep cycles may improve productivity, safety, satisfaction. Nov/Dec, p. 12.
Hobart, Stacey. Chronicle: NIOSH to study lineworker deaths. Nov/Dec, p. 12.
Wagner, Bill. Taking safety on the road. Nov/Dec, p. 26.

SALARIES
Management salaries: An American Public Power Association survey examines salaries of 16 utility occupations. Jan/Feb, p. 34.

SALT RIVER PROJECT (ARIZONA)
Harris, Glenn D. Eagle-eyed pilot. Mar/Apr, p. 43.
Harris, Glenn D. Goggles allow safe night time helicopter operations. Mar/Apr, p. 44.
Rogers, Beth. Conquering the sun. Jul/Aug, p. 40.

SAN DIEGO GAS AND ELECTRIC COMPANY
Wallace, Mary Kate. Chronicle: California IOUs decide not to merge. Jul/Aug, p. 11.

SANTA CLARA MUNICIPAL ELECTRIC DEPARTMENT (CALIFORNIA)
Anderson, Jeannine. Muse or siren (molten carbonate fuel cell). Mar/Apr, p. 54.

SEATTLE CITY LIGHT (WASHINGTON)
Wallace, Mary Kate. Chronicle: Blow-drying my hair costs how much? Jan/Feb, p. 11.
Wallace, Mary Kate. Chronicle: Seattle lights up to cut crime. Mar/Apr, p. 11.

FCC License Application Services

Our Enhanced Application Service professionals will prepare and file your FCC land mobile and microwave license applications, and FAA Form 7460-1, all at very reasonable rates. Included at no additional charge:

- **Regular status checks**
- **Post-grant requirements**
- **FCC/FAA Consultations**
- **Channel searches**

Assistance with rule waivers, STAs, path profiling, planning and system design is also available. Call us before your next licensing project. To receive a brochure and price list, please call or write to

UTC
Service Corporation

1140 Connecticut Avenue, N.W., Suite 1110, Washington, D.C. 20036. Phone 202/331-9495; FAX 202/331-7639.

LaBella, Jeanne Wickline. Randy Hardy: In charge. Sep/Oct, p. 41.
Hobart, Stacey. Seattle lab wins kudos. Nov/Dec, p. 10.

SMART METERS
Wallace, Mary Kate. Chronicle: Blow-drying my hair costs how much? Jan/Feb, p. 11.
LaBella, Jeanne Wickline. Automating Athens. Mar/Apr, p. 14.

SNOHOMISH COUNTY PUBLIC UTILITY DISTRICT NO.1 (WASHINGTON)
Cochran, Jacquie. Innovations: PUD staff telecommute. Jan/Feb, p. 45.
Cochran, Jacquie. Innovations: Meters display real-time data. Jul/Aug, p. 52.

SOLAR ENERGY
Cochran, Jacquie. Innovations: PV powers xeriscaping. Jul/Aug, p. 52.
Rogers, Beth. Conquering the sun. Jul/Aug, p. 40.
Wallace, Mary Kate. Chronicle: Solar bulletin available. Jul/Aug, p. 14.

SOLAR (PASSIVE)
Hobart, Stacey. Chronicle: Solar design can save money on heating bills. Nov/Dec, p. 11.

SOUTH CAROLINA PUBLIC SERVICE AUTHORITY (SANTEE COOPER)
Cochran, Jacquie. Innovations: Environmental scholarships awarded. Mar/Apr, p. 58.

SOUTHERN CALIFORNIA EDISON
Wallace, Mary Kate. Chronicle: California IOUs decide not to merge. Jul/Aug, p. 11.

SPACE HEATING AND COOLING
Rowland, R.D. Mass savings. May/Jun, p. 36.

STATISTICS
Hobart, Larry. Something to Think About: The numbers of public power. Jan/Feb, p. 6.
Management salaries: An American Public Power Association survey examines salaries of 16 utility occupations. Jan/Feb, p. 34.
Public power costs less. Jan/Feb, p. 16.

STRATEGIC AND LONG-RANGE PLANNING
Hobart, Larry. Something to Think About: Project 2000: A plan for the 21st century. Jul/Aug, p. 6.

STREETLIGHTING
Wallace, Mary Kate. Chronicle: Seattle lights up to cut crime. Mar/Apr, p. 11.

STUDENT PROGRAMS
Cochran, Jacquie. Innovations: Environmental scholarships awarded. Mar/Apr, p. 58.
Cochran, Jacquie. Innovations: Key West employees are volunteer tutors. Mar/Apr, p. 58.
Cochran, Jacquie. Innovations: Lighting retrofit educates students. May/Jun, p. 50.
Bentley, Alene E. Energizing education. May/Jun, p. 46.
Rogers, Beth. Reaching out to minorities. Sep/Oct, p. 20.
Hobart, Stacey. Chronicle: Students encouraged to pursue power degrees. Nov/Dec, p. 10.
Wagner, Bill. Taking safety on the road. Nov/Dec, p. 26.

SUMTER ELECTRIC COOPERATIVE (FLORIDA)
Cochran, Jacquie. Innovations: Device measures EMF. Nov/Dec, p. 49.

SURVEYS
Management salaries: An American Public Power Association survey examines salaries of 16 utility occupations. Jan/Feb, p. 34.
Cochran, Jacquie. Innovations: New customer survey tool uses bar codes. Sep/Oct, p. 56.
Wallace, Mary Kate. Chronicle: Utility officials reveal concerns in survey. Sep/Oct, p. 8.
Hobart, Stacey. Chronicle: Utilities characterize EMF issue as serious. Nov/Dec, p. 8.

TERRITORIAL RELATIONS
Wallace, Mary Kate. Chronicle: Territorial battle bites the dust. Sep/Oct, p. 8.

TEXAS MUNICIPAL POWER AGENCY
Anderson, Jeannine. Safe thinking. Jul/Aug, p. 35.

THERMAL ENERGY STORAGE (TES)
Rogers, Beth. Leveling the peaks with thermal storage. Nov/Dec, p. 45.

TIPP CITY (OHIO)
Cochran, Jacquie. Innovations: Volunteer sidewalk superintendents recruited in Ohio. Sep/Oct, p. 55.

TOKYO ELECTRIC POWER COMPANY
Fuel cells get high priority in Japan. Mar/Apr, p. 57.

TRAINING
Wallace, Mary Kate. Chronicle: Apprenticeship program aimed at minorities. Jan/Feb, p. 12.
Wagner, Bill. Taking safety on the road. Nov/Dec, p. 26.

TRANSFORMERS
Wallace, Mary Kate. Chronicle: Westinghouse will open new transformer plant. Jul/Aug, p. 10.

TRANSMISSION
Ridley, Scott. Industry restructuring: Pandora's box. May/Jun, p. 21.
Voluntary or mandatory transmission access. May/Jun, p. 24.
Hobart, Larry. Something to Think About: Transmission access answers. Sep/Oct, p. 6.
Strickler, John. Michigan sweethearts. Nov/Dec, p. 15.

TRANSMISSION LINES
Hingorani, Narain G.. FACTS for electricity. Mar/Apr, p. 50.

TRANSMISSION LINES - HEALTH EFFECTS
Wallace, Mary Kate. Chronicle: EMF: It could be the hottest environmental issue in 1991. Jan/Feb, p. 11.
Wallace, Mary Kate. Chronicle: EPRI introduces EMF risk communications handbook. May/Jun, p. 15.
Cochran, Jacquie. Innovations: Device measures EMF. Nov/Dec, p. 49.
Hobart, Stacey. Chronicle: Utilities characterize EMF issue as serious. Nov/Dec, p. 8.

UNDERGROUND RESIDENTIAL DISTRIBUTION (URD)
Mrizek, Edward J. Palo Alto goes underground. May/Jun, p. 16.

UTILITY DIVERSIFICATION
Russell, Ronald E. Who needs PUHCA? May/Jun, p. 29.
Ridley, Scott. Industry restructuring: Pandora's box. May/Jun, p. 21.

UTILITY EDUCATION COURSES
Wallace, Mary Kate. Chronicle: Scottsdale is site of work force management workshop. Jan/Feb, p. 10.
Wallace, Mary Kate. Chronicle: Economic development is focus of UEC. Mar/Apr, p. 10.
Wallace, Mary Kate. Chronicle: UECs: Retail rates, executive development. May/Jun, p. 14.
Wallace, Mary Kate. Chronicle: Senior executives, cable TV, are focus of upcoming UECs. Jul/Aug, p. 10.
Wallace, Mary Kate. Chronicle: UECs will highlight demand-side management, distribution, accounting. Sep/Oct, p. 8.
Hobart, Stacey. Chronicle: Upcoming utility education courses focus on public utility accounting. Nov/Dec, p. 8.

UTILITY MANAGEMENT
Wallace, Mary Kate. Chronicle: Utility officials reveal concerns in survey. Sep/Oct, p. 8.

UTILITY MANAGEMENT - BUILDING EFFICIENCY
Cochran, Jacquie. Innovations: Lighting retrofit saves 56 percent. May/Jun, p. 50.
Rowland, R.D. Mass savings. May/Jun, p. 36.

VANDERPOOL, LEROY
Battling stress - for safety's sake. Nov/Dec, p. 28.
Wagner, Bill. Taking safety on the road. Nov/Dec, p. 26.

VEGETATION MANAGEMENT
Wallace, Mary Kate. Chronicle: Tree power: 16 million trees. May/Jun, p. 13.
Cochran, Jacquie. Innovations: PV powers xeriscaping. Jul/Aug, p. 52.
Cochran, Jacquie. Innovations: Imprisoned acorns grow mighty oaks. Nov/Dec, p. 48.

VIDEOTAPES
Hobart, Stacey. Chronicle: Zebra mussel video available. Nov/Dec, p. 11.

WATER CONSERVATION
Cochran, Jacquie. Innovations: PV powers xeriscaping. Jul/Aug, p. 52.

WESTINGHOUSE ELECTRIC CORPORATION
Wallace, Mary Kate. Chronicle: Westinghouse will open new transformer plant. Jul/Aug, p. 10.

WHOLESALE POWER CONTRACTS
Woolbright, Shane. Omega: Prosperity is just around the corner. Jan/Feb, p. 48.
Russell, Ronald E. Who needs PUHCA? May/Jun, p. 29.

WILDLIFE PRESERVATION
Harris, Glenn D. Eagle-eyed pilot. Mar/Apr, p. 43.
Wallace, Mary Kate. Chronicle: JEA wins environmental award from city. Mar/Apr, p. 10.

WIND POWER
Wallace, Mary Kate. Chronicle: EPRI, others form wind consortium. May/Jun, p. 13.

WINDOWS
Wallace, Mary Kate. Chronicle: Now you see it, now you don't. May/Jun, p. 12.
Cochran, Jacquie. Innovations: Incentives offered for efficient windows. Sep/Oct, p. 56.
Hobart, Stacey. Chronicle: Window rating group formed. Nov/Dec, p. 8.

WORK FORCE MANAGEMENT
Wallace, Mary Kate. Chronicle: Scottsdale is site of work force management workshop. Jan/Feb, p. 10.